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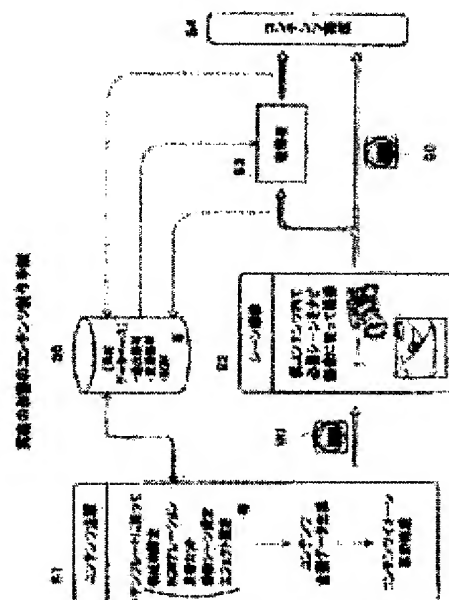
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**(54) METHOD FOR FORMING CONTENT PROJECT, CONTENT PROJECT FORMING PROGRAM, PROGRAM RECORDING MEDIUM, APPARATUS AND METHOD FOR IMAGING, IMAGING PROGRAM, CONTENT FORMING SYSTEM**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a simple and efficient manufacturing method of video contents even if it is conducted by an unskilled person, having no special knowledge or skills.

**SOLUTION:** A method for forming a content project includes the steps of selecting a template, in which a scene constitution by a plurality of scenes for constituting the contents is set, and set contents of the scene by using existing material data or novel forming data, thereby forming content project data (S1). An apparatus for imaging selects the scene, while the contents of the content project data are confirmed on a display, images/records the scene (S2). The recorded image video signal is managed in managing information of the content project data so as to assign the content project data to the scene constitution. Thus, at the time point of imaging the necessary scene, the content project data becomes the contents of a completed article (S4).



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**CLAIMS**

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[Claim(s)]

[Claim 1]

A selection procedure which chooses one template as a template to which scene composition by two or more scenes which constitute contents at least is set,

Scene content setup steps which set up the contents of the scene using the existing material data or new production data, and are used as a scene information set to a scene contained in a template selected with the above-mentioned selection procedure,

A contents planning data output procedure which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template,

A \*\*\*\*(ing) contents plan preparation method.

[Claim 2]

The contents plan preparation method according to claim 1 having the contents setup steps of an audio which set up the contents of an audio along with scene composition set up on the above-mentioned template corresponding to each scene.

[Claim 3]

The contents plan preparation method according to claim 1 having the Image Processing Division setup steps which set up the contents of Image Processing Division along with scene composition set up on the above-mentioned template corresponding to each scene.

[Claim 4]

The contents plan preparation method according to claim 1 provided with a configuration change procedure of changing scene composition set up on the above-mentioned template.

[Claim 5]

The contents plan preparation method according to claim 1, wherein the above-mentioned contents planning data output procedure carries out the reproducing output of the above-mentioned contents planning data.

[Claim 6]

The contents plan preparation method according to claim 1, wherein the above-mentioned contents planning data output procedure makes the above-mentioned contents planning data record on a recording medium.

[Claim 7]

The contents plan preparation method according to claim 1, wherein the above-mentioned contents planning data output procedure carries out the transmission output of the above-mentioned contents planning data.

[Claim 8]

A selection procedure which chooses one template as a template to which scene composition by two or more scenes which constitute contents at least is set,

Scene content setup steps which set up the contents of the scene using the existing material data

or new production data, and are used as a scene information set to a scene contained in a template selected with the above-mentioned selection procedure,

A contents planning data output procedure which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template,

A contents plan preparing program which an information processor is made to execute.

[Claim 9]

The contents plan preparing program according to claim 8 which performs the contents setup steps of an audio which set up the contents of an audio along with scene composition set up on the above-mentioned template corresponding to each scene.

[Claim 10]

The contents plan preparing program according to claim 8 which performs Image Processing Division setup steps which set up the contents of Image Processing Division along with scene composition set up on the above-mentioned template corresponding to each scene.

[Claim 11]

The contents plan preparing program according to claim 8 which performs a configuration change procedure of changing scene composition set up on the above-mentioned template.

[Claim 12]

The contents plan preparing program according to claim 8 to which the reproducing output of the above-mentioned contents planning data is carried out in the above-mentioned contents planning data output procedure.

[Claim 13]

The contents plan preparing program according to claim 8 which makes the above-mentioned contents planning data record on a recording medium in the above-mentioned contents planning data output procedure.

[Claim 14]

The contents plan preparing program according to claim 8 to which the transmission output of the above-mentioned contents planning data is carried out in the above-mentioned contents planning data output procedure.

[Claim 15]

A selection procedure which chooses one template as a template to which scene composition by two or more scenes which constitute contents at least is set,

Scene content setup steps which set up the contents of the scene using the existing material data or new production data, and are used as a scene information set to a scene contained in a template selected with the above-mentioned selection procedure,

A contents planning data output procedure which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template,

A program recording medium which recorded a contents plan preparing program which an information processor is made to execute.

[Claim 16]

The program recording medium according to claim 15 with which the above-mentioned contents plan preparing program performs further the contents setup steps of an audio which set up the contents of an audio corresponding to each scene along with scene composition to which it was set on the above-mentioned template.

[Claim 17]

The program recording medium according to claim 15 with which the above-mentioned contents plan preparing program performs further Image Processing Division setup steps which set up the contents of Image Processing Division corresponding to each scene along with scene composition to which it was set on the above-mentioned template.

**[Claim 18]**

The program recording medium according to claim 15 with which the above-mentioned contents plan preparing program performs further a configuration change procedure of changing scene composition to which it was set on the above-mentioned template.

**[Claim 19]**

The program recording medium according to claim 15 to which the above-mentioned contents plan preparing program carries out the reproducing output of the above-mentioned contents planning data in the above-mentioned contents planning data output procedure.

**[Claim 20]**

The program recording medium according to claim 15 on which the above-mentioned contents plan preparing program makes a recording medium record the above-mentioned contents planning data in the above-mentioned contents planning data output procedure.

**[Claim 21]**

The program recording medium according to claim 15 to which the above-mentioned contents plan preparing program carries out the transmission output of the above-mentioned contents planning data in the above-mentioned contents planning data output procedure.

**[Claim 22]**

An imaging means which picturizes and obtains an image pick-up video signal,

A processing means to process the above-mentioned image pick-up video signal,

An acquisition means which acquires contents planning data in which a scene information set of each scene is contained in scene composition of two or more scenes which constitute contents,

A display control means on which the contents of the above-mentioned contents planning data are displayed in a predetermined display part,

An imaging control means which controls processing of selection of a scene in the above-mentioned contents planning data, an image pick-up by the above-mentioned imaging means, and the above-mentioned image pick-up video signal by the above-mentioned processing means,

An imaging device characterized by preparation \*\*\*\*\*.

**[Claim 23]**

While the above-mentioned processing means performs recording processing which records the above-mentioned image pick-up video signal on a recording medium,

Where a certain scene in the above-mentioned contents planning data is chosen, An image pick-up video signal which was picturized by the above-mentioned imaging means and recorded on the above-mentioned recording medium by the above-mentioned processing means, The imaging device according to claim 22 having further a management information update means which updates management information of the above-mentioned contents planning data so that it may assign scene composition of the above-mentioned contents planning data.

**[Claim 24]**

While having a means of communication further,

The above-mentioned processing means performs transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal from the above-mentioned means of communication,

The above-mentioned imaging control means is in a state where a certain scene in the above-mentioned contents planning data was chosen, The imaging device according to claim 22 carrying out the transmission output of the information on a selected scene when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out from the above-mentioned means of communication by the above-mentioned processing means.

**[Claim 25]**

The imaging device according to claim 23, wherein the above-mentioned acquisition means acquires contents planning data currently recorded on the above-mentioned recording medium with which

the above-mentioned processing means is equipped.

[Claim 26]

The imaging device according to claim 23, wherein the above-mentioned acquisition means acquires contents planning data currently recorded on a recording medium other than the above-mentioned recording medium with which the above-mentioned processing means is equipped.

[Claim 27]

It has a means of communication,

The imaging device according to claim 22, wherein the above-mentioned acquisition means acquires contents planning data received by the above-mentioned means of communication.

[Claim 28]

The imaging device according to claim 22, wherein the above-mentioned display control means displays a scene information set corresponding to a selected scene on the above-mentioned display part as contents of the above-mentioned contents planning data.

[Claim 29]

The above-mentioned display control means is in a state where a certain scene in the above-mentioned contents planning data was chosen, The imaging device according to claim 22 displaying a scene information set corresponding to a selected scene, and an image pick-up video signal by the above-mentioned imaging means on the above-mentioned display part when an image pick-up is performed by the above-mentioned imaging means.

[Claim 30]

The imaging device according to claim 23, wherein the above-mentioned display control means displays an image based on the above-mentioned contents planning data on the above-mentioned display part including an image pick-up video signal assigned to scene composition of the above-mentioned contents planning data by the above-mentioned management information update means.

[Claim 31]

The state where a certain scene [ in / in the above-mentioned imaging control means / the above-mentioned contents planning data ] was chosen, The imaging device according to claim 23 setting up execution time of record of an image pick-up video signal to an image pick-up by the above-mentioned imaging means, and the above-mentioned recording medium by the above-mentioned processing means based on a scene hour entry included in the above-mentioned contents planning data.

[Claim 32]

The state where a certain scene [ in / in the above-mentioned imaging control means / the above-mentioned contents planning data ] was chosen, The imaging device according to claim 24 setting up execution time of a transmission output of an image pick-up video signal from an image pick-up by the above-mentioned imaging means, and the above-mentioned means of communication by the above-mentioned processing means based on a scene hour entry included in the above-mentioned contents planning data.

[Claim 33]

An editing means which performs edit to an image pick-up video signal which was picturized by the above-mentioned imaging means and recorded on the above-mentioned recording medium by the above-mentioned processing means where a certain scene in the above-mentioned contents planning data is chosen,

The having imaging device according to claim 23.

[Claim 34]

In scene composition of two or more scenes which constitute contents, contents planning data in which a scene information set of each scene is contained is acquired,

The contents of the above-mentioned contents planning data are displayed,

An imaging method picturizing after choosing a certain scene in the above-mentioned contents planning data, and processing an image pick-up video signal.

**[Claim 35]**

Processing of the above-mentioned image pick-up video signal is recording processing which records the above-mentioned image pick-up video signal on a recording medium.

Where a certain scene in the above-mentioned contents planning data is chosen, The imaging method according to claim 34 updating management information of the above-mentioned contents planning data so that an image pick-up video signal with which record to the above-mentioned image pick-up and the above-mentioned recording medium was performed may be assigned to scene composition of the above-mentioned contents planning data.

**[Claim 36]**

Processing of the above-mentioned image pick-up video signal is transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal,

The imaging method according to claim 34 carrying out the transmission output of the information on a selected scene when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out, where a certain scene in the above-mentioned contents planning data is chosen.

**[Claim 37]**

The imaging method according to claim 35, wherein the above-mentioned contents planning data is recorded on the above-mentioned recording medium which records the above-mentioned image pick-up video signal and acquires the above-mentioned contents planning data from the above-mentioned recording medium.

**[Claim 38]**

The imaging method according to claim 35, wherein the above-mentioned contents planning data is recorded on a recording medium other than the above-mentioned recording medium which records the above-mentioned image pick-up video signal and acquires the above-mentioned contents planning data from a recording medium according to above.

**[Claim 39]**

The imaging method according to claim 34 acquiring the above-mentioned contents planning data by being received in data-communications operation.

**[Claim 40]**

The imaging method according to claim 34 displaying a scene information set corresponding to a selected scene when displaying the contents of the above-mentioned contents planning data.

**[Claim 41]**

The imaging method according to claim 34 displaying a scene information set corresponding to a selected scene, and an image pick-up video signal by the above-mentioned image pick-up when an image pick-up is performed after choosing a certain scene in the above-mentioned contents planning data.

**[Claim 42]**

The imaging method according to claim 35 characterized by displaying an image based on the above-mentioned contents planning data including an image pick-up video signal assigned to scene composition of the above-mentioned contents planning data by renewal of the above-mentioned management information.

**[Claim 43]**

The imaging method according to claim 35 setting up execution time of record of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and an image pick-up video signal to the above-mentioned recording medium, based on a scene hour entry included in the above-mentioned contents planning data.

**[Claim 44]**

The imaging method according to claim 36 setting up execution time of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and the above-mentioned transmission output, based on a scene hour entry included in the

above-mentioned contents planning data.

[Claim 45]

The imaging method according to claim 35, wherein edit to an image pick-up video signal which was picturized where a certain scene in the above-mentioned contents planning data is chosen, and was recorded on the above-mentioned recording medium is enabled.

[Claim 46]

In scene composition of two or more scenes which constitute contents, contents planning data in which a scene information set of each scene is contained is acquired,

The contents of the above-mentioned contents planning data are displayed,

An imaging program which makes an imaging device perform picturizing after choosing a certain scene in the above-mentioned contents planning data, and processing an image pick-up video signal.

[Claim 47]

Processing of the above-mentioned image pick-up video signal is recording processing which records the above-mentioned image pick-up video signal on a recording medium,

Where a certain scene in the above-mentioned contents planning data is chosen, The imaging program according to claim 46 which performs processing which updates management information of the above-mentioned contents planning data so that an image pick-up video signal with which record to the above-mentioned image pick-up and the above-mentioned recording medium was performed may be assigned to scene composition of the above-mentioned contents planning data.

[Claim 48]

Processing of the above-mentioned image pick-up video signal is transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal,

The imaging program according to claim 46 which performs processing which carries out the transmission output of the information on a selected scene when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out, where a certain scene in the above-mentioned contents planning data is chosen.

[Claim 49]

The imaging program according to claim 47 which performs processing which the above-mentioned contents planning data is recorded on the above-mentioned recording medium which records the above-mentioned image pick-up video signal, and acquires the above-mentioned contents planning data from the above-mentioned recording medium.

[Claim 50]

The above-mentioned contents planning data is recorded on a recording medium other than the above-mentioned recording medium which records the above-mentioned image pick-up video signal. The imaging program according to claim 47 which performs processing which acquires the above-mentioned contents planning data from a recording medium according to above.

[Claim 51]

The imaging program according to claim 46 which performs processing acquired by the above-mentioned contents planning data being received in data-communications operation.

[Claim 52]

The imaging program according to claim 46 on which a scene information set corresponding to a selected scene is displayed when displaying the contents of the above-mentioned contents planning data.

[Claim 53]

The imaging program according to claim 46 on which a scene information set corresponding to a selected scene and an image pick-up video signal by the above-mentioned image pick-up are displayed when an image pick-up is performed after choosing a certain scene in the above-mentioned contents planning data.



**[Claim 54]**

The imaging program according to claim 47 on which an image based on the above-mentioned contents planning data is displayed including an image pick-up video signal assigned to scene composition of the above-mentioned contents planning data by renewal of the above-mentioned management information.

**[Claim 55]**

The imaging program according to claim 47 which performs processing which sets up execution time of record of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and an image pick-up video signal to the above-mentioned recording medium, based on a scene hour entry included in the above-mentioned contents planning data.

**[Claim 56]**

The imaging program according to claim 48 which performs processing which sets up execution time of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and the above-mentioned transmission output, based on a scene hour entry included in the above-mentioned contents planning data.

**[Claim 57]**

The imaging program according to claim 47 which performs edit to an image pick-up video signal which was picturized where a certain scene in the above-mentioned contents planning data is chosen, and was recorded on the above-mentioned recording medium.

**[Claim 58]**

In scene composition of two or more scenes which constitute contents, contents planning data in which a scene information set of each scene is contained is acquired,  
The contents of the above-mentioned contents planning data are displayed,  
A program recording medium which recorded an imaging program which makes an imaging device perform picturizing after choosing a certain scene in the above-mentioned contents planning data, and processing an image pick-up video signal. .

**[Claim 59]**

Processing of the above-mentioned image pick-up video signal is recording processing which records the above-mentioned image pick-up video signal on a recording medium,  
Where a certain scene in the above-mentioned contents planning data is chosen, The program recording medium according to claim 58 which recorded an imaging program which performs processing which updates management information of the above-mentioned contents planning data so that an image pick-up video signal with which record to the above-mentioned image pick-up and the above-mentioned recording medium was performed may be assigned to scene composition of the above-mentioned contents planning data.

**[Claim 60]**

Processing of the above-mentioned image pick-up video signal is transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal,  
The program recording medium according to claim 58 which recorded an imaging program which performs processing which carries out the transmission output of the information on a selected scene when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out, where a certain scene in the above-mentioned contents planning data is chosen.

**[Claim 61]**

The above-mentioned contents planning data is recorded on the above-mentioned recording medium which records the above-mentioned image pick-up video signal.  
The program recording medium according to claim 59 which performs processing for which the above-mentioned imaging program acquires the above-mentioned contents planning data from the above-mentioned recording medium.



**[Claim 62]**

The above-mentioned contents planning data is recorded on a recording medium other than the above-mentioned recording medium which records the above-mentioned image pick-up video signal. The program according to claim 59 which performs processing for which the above-mentioned imaging program acquires the above-mentioned contents planning data from a recording medium according to above.

**[Claim 63]**

The program recording medium according to claim 58 for which processing acquired because the above-mentioned imaging program receives the above-mentioned contents planning data in data-communications operation is performed.

**[Claim 64]**

The program recording medium according to claim 58 on which a scene information set corresponding to a selected scene is displayed when the above-mentioned imaging program displays the contents of the above-mentioned contents planning data.

**[Claim 65]**

The program recording medium according to claim 58 on which a scene information set corresponding to a selected scene and an image pick-up video signal by the above-mentioned image pick-up are displayed when an image pick-up is performed after the above-mentioned imaging program chooses a certain scene in the above-mentioned contents planning data.

**[Claim 66]**

The program recording medium according to claim 59 on which the above-mentioned imaging program displays an image based on the above-mentioned contents planning data including an image pick-up video signal assigned to scene composition of the above-mentioned contents planning data by renewal of the above-mentioned management information.

**[Claim 67]**

The state where a certain scene [ in / in the above-mentioned imaging program / the above-mentioned contents planning data ] was chosen, The program recording medium according to claim 59 which performs processing which sets up execution time of record of an image pick-up video signal to the above-mentioned image pick-up and the above-mentioned recording medium based on a scene hour entry included in the above-mentioned contents planning data.

**[Claim 68]**

The program recording medium according to claim 60 for which the above-mentioned imaging program performs processing which sets up execution time of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and the above-mentioned transmission output, based on a scene hour entry included in the above-mentioned contents planning data.

**[Claim 69]**

The program recording medium according to claim 59 which performs edit to an image pick-up video signal which the above-mentioned imaging program was picturized where a certain scene in the above-mentioned contents planning data is chosen, and was recorded on the above-mentioned recording medium.

**[Claim 70]**

A template to which scene composition by two or more scenes which constitute contents at least is set, and a storing means which stores material data,

A selecting means which chooses a template stored in the above-mentioned storing means,

A scene content setting-out means which sets up the contents of the scene using the above-mentioned material data or new production data obtained from the above-mentioned storing means, and is used as a scene information set to a scene contained in a template selected by the above-

mentioned selecting means,

A contents planning data output means which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template,

An imaging means which picturizes and obtains an image pick-up video signal,

A processing means to process the above-mentioned image pick-up video signal,

An acquisition means which acquires contents planning data outputted by the above-mentioned contents planning data output means,

A display control means on which the contents of the above-mentioned contents planning data are displayed in a predetermined display part,

An imaging control means which controls processing of selection of a scene in the above-mentioned contents planning data, an image pick-up by the above-mentioned imaging means, and the above-mentioned image pick-up video signal by the above-mentioned processing means,

A contents preparing system characterized by preparation \*\*\*\*\*.

[Claim 71]

While the above-mentioned processing means performs recording processing which records the above-mentioned image pick-up video signal on a recording medium,

Where a certain scene in the above-mentioned contents planning data is chosen, An image pick-up video signal which was picturized by the above-mentioned imaging means and recorded on the above-mentioned recording medium by the above-mentioned processing means, The contents preparing system according to claim 70 having further a management information update means which updates management information of the above-mentioned contents planning data so that it may assign scene composition of the above-mentioned contents planning data.

[Claim 72]

While having a means of communication further,

The above-mentioned processing means performs transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal from the above-mentioned means of communication,

The above-mentioned imaging control means is in a state where a certain scene in the above-mentioned contents planning data was chosen, The contents preparing system according to claim 70 carrying out the transmission output of the information on a selected scene when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out from the above-mentioned means of communication by the above-mentioned processing means.

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[Translation done.]

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]****[0001]****[Field of the Invention]**

This invention relates to the program recording medium which recorded the contents plan preparing program which realizes the contents plan preparation method performed with an information processor etc., and its contents plan preparation method, and its contents plan preparing program.

This invention relates to the program recording medium which recorded an imaging device, an imaging method, an imaging program, and its imaging program.

Furthermore, this invention relates to the contents preparing system which can be constituted, for example from an information processor, an imaging device, etc.

**[0002]****[Description of the Prior Art]**

For example, the imaging device has spread as a portable video camera etc., and it is used for business use, an ordinary home use, etc.

**[0003]****[Problem(s) to be Solved by the Invention]**

The opportunity for a general user to touch an image content is increasing with the spread of Electronic Image Devices Division, such as a video camera and playback equipment, and the general user also manufactures the image content more often with the hobby etc. Furthermore, educational facilities of use [ in the business / an image content ], such as a company, a store, a self-governing body, and a school, are increasing.

For example, there is a situation of considering it as advertisement/promotional video of goods, local introduction video, and the video for education, or using an image content as various presentations. On these Descriptions, "contents" or an "image content" means what is formed as one completed video title, for example like the above-mentioned advertisement/promotional video, a movie, a commercial film, and a TV program.

**[0004]**

However, for except specialists, such as an image content manufacture contractor, even the thing of the easy contents for about several minutes is difficult for contents manufacture, for example. A contents fabrication sequence is shown in drawing 22.

A contents fabrication sequence is roughly divided so that it may illustrate, and it steps on the procedure of the three-stage of a contents plan, a scene image pick-up, and edit.

First, the plan of contents which it is going to manufacture is drawn up in the stage of a contents plan. That is, the schedule of the composition of each scene formed as one contents, an imaging place, time, etc., the contents of the scene, the image pick-up procedure of each scene, etc. are planned. Although the sequence of each scene, scene time, the contents of an image pick-up, the image pick-up technique, etc. must be decided especially as composition of each scene, in

consideration of the image of the contents which make it complete, advanced skill and sense are required of this.

It is necessary to manufacture the contents of each scene as a continuity with drawings etc.

[0005]

If the plans including a scene composition rate, a continuity with drawings, etc. are completed, it will shift to the image pick-up of a scene next. An image pick-up picturizes on the spot according to the contents and the procedure which it was written to the plan.

The picturized image will be edited if the image pick-up of a required scene is completed. That is, special effects, such as patching of the image as an image pick-up scene, wipe, and fade, BGM, insertion of narration, etc. are performed. Of course, it cannot be overemphasized that skill also with this advanced editing work, the knowledge of editing equipment, and an image sense are required.

And required edit is completed and one image content is completed.

[0006]

Although the image content of the level accepted also, for example as above business-use ways can be manufactured with this contents fabrication sequence, such contents manufacture will require great time while it is very difficult in addition to a specialist.

For example, when a self-governing body, a store, a company, etc. want to manufacture contents easily and to use for business, the above contents manufactures do not get used.

If an example is given, when you would like to manufacture the introduction video of a shopping center in a shopping center association, When a travel agency wants to manufacture the sales promotion video for every travel destination, in the case where a real estate agent wants to manufacture apartment introduction video etc., it is optimal that an image content can be manufactured by the its company staff, without requesting the vendor of image content manufacture. However, image content manufacture satisfying in a so-called amateur's staff about image manufacture is difficult. Though the procedure of above-mentioned drawing 22 is stepped on, the execution of each of that procedure itself also serves as difficulty. For example, it is not easy to perform a contents plan, imagining final contents, to perform edit effective after an image pick-up, etc.

[0007]

[Means for Solving the Problem]

Then, an object of this invention is to enable it to manufacture an image content simply and efficiently, even if it is not an expert who has a know how and skill.

[0008]

A contents plan preparation method of this invention is provided with the following.

A selection procedure which chooses one template as a template to which scene composition by two or more scenes which constitute contents at least is set.

Scene content setup steps which set up the contents of the scene using the existing material data or new production data, and are used as a scene information set to a scene contained in a template selected with the above-mentioned selection procedure.

A contents planning data output procedure which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template.

Along with scene composition set up on the above-mentioned template, it has the contents setup steps of an audio which set up the contents of an audio corresponding to each scene.

Along with scene composition set up on the above-mentioned template, it has the Image Processing Division setup steps which set up the contents of Image Processing Division corresponding to each scene.

It has a configuration change procedure of changing scene composition set up on the above-mentioned template.

The above-mentioned contents planning data output procedure carries out the reproducing output of the above-mentioned contents planning data.

The above-mentioned contents planning data output procedure makes the above-mentioned contents planning data record on a recording medium.

The above-mentioned contents planning data output procedure carries out the transmission output of the above-mentioned contents planning data.

[0009]

A contents plan preparing program of this invention is a program which makes an information processor perform the above-mentioned contents plan preparation method, and a program recording medium of this invention is a recording medium which recorded the contents plan preparing program.

[0010]

An imaging device of this invention is provided with the following.

An imaging means which picturizes and obtains an image pick-up video signal.

A processing means to process the above-mentioned image pick-up video signal.

An acquisition means which acquires contents planning data in which a scene information set of each scene is contained in scene composition of two or more scenes which constitute contents.

An imaging control means which controls processing of the above-mentioned image pick-up video signal by display control means on which the contents of the above-mentioned contents planning data are displayed in a predetermined display part, and selection of a scene in the above-mentioned contents planning data, an image pick-up by the above-mentioned imaging means and the above-mentioned processing means.

While the above-mentioned processing means has recording processing which records the above-mentioned image pick-up video signal on a recording medium performed, Where a certain scene in the above-mentioned contents planning data is chosen, It is picturized by the above-mentioned imaging means and has further a management information update means which updates management information of the above-mentioned contents planning data so that an image pick-up video signal recorded on the above-mentioned recording medium by the above-mentioned processing means may be assigned to scene composition of the above-mentioned contents planning data.

Have a means of communication further and with \*\* the above-mentioned processing means,

Transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal from the above-mentioned means of communication shall be performed, and the above-mentioned imaging control means, Where a certain scene in the above-mentioned contents planning data is chosen, when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out from the above-mentioned means of communication by the above-mentioned processing means, the transmission output of the information on a selected scene is carried out.

The above-mentioned acquisition means acquires contents planning data currently recorded on the above-mentioned recording medium with which the above-mentioned processing means is equipped.

Or the above-mentioned acquisition means acquires contents planning data currently recorded on a recording medium other than the above-mentioned recording medium with which the above-mentioned processing means is equipped.

Or it has a means of communication and the above-mentioned acquisition means acquires contents planning data received by the above-mentioned means of communication.

The above-mentioned display control means displays a scene information set corresponding to a selected scene on the above-mentioned display part as contents of the above-mentioned contents planning data.

The above-mentioned display control means is in a state where a certain scene in the above-

mentioned contents planning data was chosen, and when an image pick-up is performed by the above-mentioned imaging means, it displays a scene information set corresponding to a selected scene, and an image pick-up video signal by the above-mentioned imaging means on the above-mentioned display part.

The above-mentioned display control means displays an image based on the above-mentioned contents planning data on the above-mentioned display part including an image pick-up video signal assigned to scene composition of the above-mentioned contents planning data by the above-mentioned management information update means.

The state where a certain scene [ in / in the above-mentioned imaging control means / the above-mentioned contents planning data ] was chosen, Execution time of record (or transmission output) of an image pick-up video signal to an image pick-up and the above-mentioned recording medium by the above-mentioned processing means is set up based on a scene hour entry included in the above-mentioned contents planning data by the above-mentioned imaging means.

Where a certain scene in the above-mentioned contents planning data is chosen, it is picturized by the above-mentioned imaging means and has further an editing means which performs edit to an image pick-up video signal recorded on the above-mentioned recording medium by the above-mentioned processing means.

[0011]

In scene composition of two or more scenes from which an imaging method of this invention constitutes contents, Contents planning data in which a scene information set of each scene is contained is acquired, and the contents of the above-mentioned contents planning data are displayed, after choosing a certain scene in the above-mentioned contents planning data, it picturizes, and an image pick-up video signal is processed.

Processing of the above-mentioned image pick-up video signal is recording processing which records the above-mentioned image pick-up video signal on a recording medium, and it is in a state where a certain scene in the above-mentioned contents planning data was chosen, Management information of the above-mentioned contents planning data is updated so that an image pick-up video signal with which record to the above-mentioned image pick-up and the above-mentioned recording medium was performed may be assigned to scene composition of the above-mentioned contents planning data.

Processing of the above-mentioned image pick-up video signal is transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal, is in a state where a certain scene in the above-mentioned contents planning data was chosen, and when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out, it carries out the transmission output of the information on a selected scene.

The above-mentioned contents planning data is recorded on the above-mentioned recording medium which records the above-mentioned image pick-up video signal, and acquires the above-mentioned contents planning data from the above-mentioned recording medium. Or the above-mentioned contents planning data is recorded on a recording medium other than the above-mentioned recording medium which records the above-mentioned image pick-up video signal, and acquires the above-mentioned contents planning data from a recording medium according to above. Or the above-mentioned contents planning data is acquired by being received in data-communications operation.

When displaying the contents of the above-mentioned contents planning data, a scene information set corresponding to a selected scene is displayed.

When an image pick-up is performed after choosing a certain scene in the above-mentioned contents planning data, a scene information set corresponding to a selected scene and an image pick-up video signal by the above-mentioned image pick-up are displayed.

An image based on the above-mentioned contents planning data is displayed including an image

pick-up video signal assigned to scene composition of the above-mentioned contents planning data by renewal of the above-mentioned management information.

Execution time of record (or transmission output) of the above-mentioned image pick-up in the state where a certain scene in the above-mentioned contents planning data was chosen, and an image pick-up video signal to the above-mentioned recording medium is set up based on a scene hour entry included in the above-mentioned contents planning data. Edit to an image pick-up video signal which was picturized where a certain scene in the above-mentioned contents planning data is chosen, and was recorded on the above-mentioned recording medium is enabled.

[0012]

An imaging program of this invention is a program for realizing the above-mentioned imaging device and an imaging method, and a program recording medium of this invention is a recording medium which recorded the imaging program.

[0013]

A contents preparing system of this invention is provided with the following.

A template to which scene composition by two or more scenes which constitute contents at least is set, and a storing means which stores material data.

A selecting means which chooses a template stored in the above-mentioned storing means.

A scene content setting-out means which sets up the contents of the scene using the above-mentioned material data or new production data obtained from the above-mentioned storing means, and is used as a scene information set to a scene contained in a template selected by the above-mentioned selecting means.

A contents planning data output means which outputs contents planning data built by the above-mentioned scene information set being managed with scene composition set up on the above-mentioned template, An imaging means which picturizes and obtains an image pick-up video signal, and a processing means to process the above-mentioned image pick-up video signal, An acquisition means which acquires contents planning data outputted by the above-mentioned contents planning data output means, An imaging control means which controls processing of the above-mentioned image pick-up video signal by display control means on which the contents of the above-mentioned contents planning data are displayed in a predetermined display part, and selection of a scene in the above-mentioned contents planning data, an image pick-up by the above-mentioned imaging means and the above-mentioned processing means.

While the above-mentioned processing means performs recording processing which records the above-mentioned image pick-up video signal on a recording medium, Where a certain scene in the above-mentioned contents planning data is chosen, It is picturized by the above-mentioned imaging means and has further a management information update means which updates management information of the above-mentioned contents planning data so that an image pick-up video signal recorded on the above-mentioned recording medium by the above-mentioned processing means may be assigned to scene composition of the above-mentioned contents planning data.

While having a means of communication further, the above-mentioned processing means, Perform transmitting processing which carries out the transmission output of the above-mentioned image pick-up video signal from the above-mentioned means of communication, and the above-mentioned imaging control means, Where a certain scene in the above-mentioned contents planning data is chosen, when the transmission output of the above-mentioned image pick-up video signal picturized by the above-mentioned imaging means is carried out from the above-mentioned means of communication by the above-mentioned processing means, the transmission output of the information on a selected scene is carried out.

[0014]

According to the above this invention, contents planning data is created based on a template to which scene composition was set. In this case, even if neither a composition rate nor the contents



are experts in a certain thing [ being set up in grade guide ] as scene composition, a contents plan of a level of a certain grade can be performed to a template.

In an imaging device, while picturizing based on contents planning data, based on contents planning data, contents can be easily completed by assigning an image pick-up video signal to a scene of contents planning data.

[0015]

[Embodiment of the Invention]

Hereafter, an embodiment of the invention is described. Composition and operation for creating contents planning data in an embodiment, for example using information processors, such as a personal computer, And based on contents planning data, it picturizes in an imaging device (video camera), and the composition and operation for completing contents are explained.

Explanation is given in an order shown below.

1. Contents fabrication sequence
2. Contents plan
  - 2-1 Equipment configuration
  - 2-2 A template and a raw material database
  - 2-3 Contents plan procedure
  - 2-4 Record on a disk
3. Scene image pick-up
  - 3-1 Composition of a video camera
  - 3-2 Scene image pick-up procedure
4. Modification

[0016]

1. Contents fabrication sequence

Drawing 1 explains the contents fabrication sequence in this embodiment roughly first.

The contents fabrication sequence of this example is fundamentally completed only by the contents plan (S1) shown in drawing 1, and scene image pick-up (S2). That is, it becomes contents completion (S4).

And if based on a maker's volition if needed, fine correction (S3) may be made. It is also possible to accumulate the scene etc. which were picturized in a raw material database (S5).

[0017]

In a contents plan (S1), a plan worker performs a contents plan, using information processors, such as a personal computer, as a contents plan preparation device. By starting a contents plan preparing program in a personal computer, a personal computer can be used as a contents plan preparation device.

In a contents plan preparation device, and the scene composition and the timetable as an image content, A certain template set up in grade guide is prepared, and a scene content etc. are a worker's inputting arbitrary contents using a template, or choosing, and further the contents plan. Although the example of a template is mentioned later, a setting screen is prepared for every scene. For example, in the case of the template of the contents which comprise five scenes, the contents, a timetable, etc. which should be picturized can be set up about each scene.

[0018]

Although it inputs to the template about a scene content or directions of the imaging method of a scene according to the contents of contents which a worker means, In that case, input text data and simple figure data on a template, or, It is possible to make the picture image data created by the computer graphic link, or to make Still Picture Sub-Division and the animation suitable for the image meant out of Still Picture Sub-Division and the animation which are saved in the raw material database (S5), or a time-tested cut choose and link etc. Time-tested cuts are image contents which can be used for a general-purpose [ a certain grade ] target, for example like the opening image in the contents of the same series.

[0019]

In accordance with the time series on a template, audio setting out of BGM, narration, etc. or setting out of the inside of a scene, the image effect in the change portion of a scene, etc. is also enabled.

[0020]

By setting out being completed about each scene on a template, as for the template, i.e., the template edited along with this plan, itself becomes contents planning data.

This contents planning data is equivalent to a plan, a continuity with drawings, etc. which are created in the contents plan stage as used in the conventional technique.

However, the template to which scene composition was set from the first is used for contents planning data, and it is reproducing contents planning data and can carry out pre confirmation of the image of the contents after completion. Carrying out a reproduction check also during a plan, of course repeatedly, when the contents of each scene were boiled down, it was also able to carry out.

[0021]

Thus, creation of contents planning data meets the template to which the scene composition of a certain grade was set beforehand, Since what is necessary's being just to edit the template and the edited template are reproduced and the image after completion can be checked, plan creation shall be performed easily also for an unskilled operator.

[0022]

The created contents planning data is saved, for example on the disk 90. This disk 90 is a disk by which record reproduction is carried out in the video camera 1 which performs a scene image pick-up (S2).

Therefore, contents planning data can be reproduced in the video camera 1, for example, it can be made to display on a liquid crystal display screen etc., and an image pick-up person can check the contents of each scene as contents planning data, the image pick-up technique, etc. And the required image pick-up is performed in accordance with the contents of the contents planning data. That is, it changes to an image pick-up while the image pick-up which was being performed while checking the plan and the continuity with drawings conventionally checks the image by contents planning data, etc.

[0023]

The image of the scene picturized in the video camera 1 is recorded on the disk 90. In the disk 90, the scene picture image data is assigned to the scene composition on contents planning data, and is managed. That is, the portion of the information set of the scene content in contents planning data is managed so that it may be exchanged by the actually picturized scene image. If contents planning data is reproduced, actual imaging data will be reproduced by this about the scene which performed the scene image pick-up.

Namely, a required scene image pick-up is completed and, as for contents planning data, itself becomes contents data of a finished product in the stage where each image pick-up picture image data was linked to contents planning data.

[0024]

Thus, fundamentally, contents planning data is generated by contents plan (S1), it is only performing the image pick-up by the video camera 1 based on contents planning data by scene image pick-up (S2), and one contents are completed.

Depending on the case, fine correction (S3) of audio setting out, an addition / deletion / exchange of a picture effect or scene composition, etc., etc. can also be made.

[0025]

The picturized picture image data, the corrected picture image data, etc. are also storable in a raw material database as material data used for a subsequent contents plan (S5).

The material data which is stored in a raw material database, of course, and is can be used in the

stage of fine correction (S3), and can also be used as some contents as a finished product.

[0026]

On the disk 90 which recorded contents planning data in the stage of a contents plan (S1) as an archive medium. The picture image data picturized in the stage of a scene image pick-up (S2) is recorded, and since it is linked to contents planning data and serves as contents of a finished product, it can complete only by the one disk 90.

Although the one disk 90 was used from a contents plan stage to completion as this example, Contents planning data is recorded on other media, and it may deliver to the video camera 1, or may be made to deliver to the video camera 1 by communication of the network communication of a cable/radio, etc. These are later described as a modification.

[0027]

## 2. Contents plan

### 2-1 Equipment configuration

Here, the contents plan (S1) in the contents fabrication sequence explained by above-mentioned drawing 1 is explained.

First, drawing 2 explains the composition of a contents plan preparation device. A contents plan preparation device is realized as mentioned above by installing and starting a contents plan preparing program, for example in a personal computer. It may be constituted as a device for exclusive use, without, of course using a personal computer.

[0028]

In drawing 2, CPU41 performs control and data processing of each part based on the started program. For example, the input/output operation and memory control to an operator, HDD (hard disk drive) control, the communication operation through a network, external-interface control, record reproduction control of the disks 90 and 91, a data operation, etc. are performed. CPU41 performs an exchange of a control signal and data between each circuit part via the bus 42.

[0029]

The memory part 43 shows comprehensively RAM and ROM which CPU41 uses for processing, the flash memory, etc.

The operation program of CPU41, a programme loader, etc. are memorized by ROM in the memory part 43. The parameter etc. which are used for the flash memory in the memory part 43 by various operation coefficients and a program are memorized. A data area when executing a program, and a task field are temporarily secured to RAM in the memory part 43.

[0030]

The input parts 45 are a keyboard, a mouse, a touch panel, a remote commander, a scanner, and other input devices, and the operator which performs a contents plan performs various operational inputs and data input. Predetermined processing is performed by the input processing part 44, and the inputted information is transmitted as operation or an entry of data to CPU41. CPU41 performs a required operation and control corresponding to the inputted information.

[0031]

The indicator 47 is used as display devices, such as CRT and a liquid crystal panel, for example, and performs a variety-of-information display to an operator.

When CPU41 supplies display information to the display processing part 46 according to various operating states or an input state, the display processing part 46 makes the indicator 47 perform a display action based on the supplied indicative data.

[0032]

HDD48 is used as database areas, such as storing of various programs, such as a contents plan preparing program, other contents planning data and various data storing, and also a raw material database.

[0033]

The communication processing part 49 performs encoding processing of send data, and decoding of

received data based on control of CPU41.

The network interface 50 transmits the send data encoded by the communication processing part 49 to predetermined apparatus via the network 2. The signal transmitted from the external instrument via the network 2 is delivered to the communication processing part 49.

The communication processing part 49 transmits the received information to CPU41.

[0034]

The disk drive 51 is a disk drive which performs record reproduction to the disk 90 used as record reproduction media also in the video camera 1.

The disk drive 51 is recorded on the disk 90 loaded with the created contents planning data based on control of CPU41.

[0035]

The disk drive 55 is a disk drive which performs record reproduction, for example to the disk 91 of DVD methods, such as a disk of CD methods, such as CD-DA, CD-ROM, and CD-R, DVD-ROM, DVD-RAM, DVD-R.

For example, application programs, such as a contents plan preparing program, When a raw material database etc. are recorded on CD-ROM or DVD-ROM and are provided, the disk drive 55 can be loaded with the disk 91, and program and installation of a database can be performed.

Or it can perform loading the disk drive 55 with the disk 91 which is used as a raw material database etc. and provided, playing the data contained in the database at the time of necessity, and making it incorporate etc.

[0036]

The external interface 54 is a part which connects with the peripheral equipment connected, for example by methods, such as IEEE1394, USB, and SCSI, and performs data communications.

The apparatus equivalent to the disk drives 51 and 55 may be connected as peripheral equipment.

External HDD is connected and a program and a raw material database may be made to be stored in the external HDD. Of course, a printer, a scanner, etc. may be connected. The information processor and LAN of further others may be made to be formed.

[0037]

The voice processing part 53 processes the audio information outputted to an operator, and is made to supply and carry out voice response to the voice output part 52, for example, a loudspeaker part, and a headphone jack.

When audio information is read from the disks 90 and 91 with the disk drives 51 and 55 depending on the voice processing part 53 and the voice output part 52, voice response by the audio information can be performed. Reproducing outputs, such as an audio file contained in the raw material database which is stored in HDD48 or other parts and is, are also performed. Furthermore at the time of reproduction of contents planning data, the reproducing output about the audio information set up with the contents planning data is also performed.

[0038]

To such a contents plan preparation device, a contents plan preparing program can be provided by the disk 91 or 90, for example, it can install in HDD48. Or a contents plan preparing program is downloadable from an external server via the network interface 50.

Of course, the contents plan preparing program may be beforehand stored in HDD48 or the memory 43.

Or the contents plan preparing program may be stored in the peripheral equipment connected to the external interface 54.

These points are the same also about the raw material database which can be used in the case of a contents plan.

And processing as a contents plan (S1) in which it explained by drawing 1 can be performed because CPU41 starts a contents plan preparing program.

In such a contents plan preparation device (personal computer), processing of the stage of fine

correction (S3) of drawing 1 can also be performed.

[0039]

## 2-2 A template and a raw material database

The template and raw material database which are used for a contents plan are explained.

A template is prepared as a data file group which accompanies a contents plan preparing program. It may be installed with a contents plan preparing program, and, Or a contents plan preparing program may be independently prepared as a template data constellation, and may be memorized by the HDD48 grade as a data file which a contents plan preparing program can use.

Or various template data may be stored in a raw material database, or the independent template data base may be prepared.

[0040]

even if it uses which gestalt, when a contents plan preparing program is started, it is shown in drawing 3 — as — two or more template TP#1 and TP#2 — let ... be an available thing.

a template — a certain grade as an image content — it is the data file in which obligatory scene composition, the timetable of each scene, etc. are set up. For example, it begins from an opening title scene and each scene to an ending scene is set up in guide along with the story composition of contents.

The plan worker should just set concrete image contents as each prepared scene. Of course, the number of composition of a scene can also be fluctuated arbitrarily.

For example, on the screen which the scene setting program is prepared for one template TP#1 corresponding to each scene #1 beforehand constituted as shown in drawing 5 - #n, and is displayed by each scene setting program, The scene content is set up and scene information set SC#1 (P) - SC#n (P) are created.

This scene setting program is a program for advancing contents setting out of each scene according to a worker's input, is performing a user interface screen display and processing corresponding to an input, and is a program for performing setting out of arbitrary scene contents on a screen.

[0041]

The audio setting program which performs audio setting out of BGM, narration, etc. is also prepared for a template, and a worker makes it correspond to the time-axis or scene of contents, sets up BGM etc., and creates an audio configuration file.

Furthermore the Image Processing Division setting program which sets up a picture effect, a superimposition, etc. is also prepared for a template, and a worker makes it correspond to the time-axis or scene of contents, sets up a picture effect etc., and creates the Image Processing Division configuration file.

This audio setting program and the Image Processing Division setting program are also programs for advancing each setting out according to a worker's input, and are a program for making audio setting-out work and image-processing-setting work do by performing a user interface screen display and processing corresponding to an input.

[0042]

And the aggregate of a scene information set SC#1 (P) created based on such template - SC#n (P), and audio configuration file and the Image Processing Division configuration file serves as contents planning data which should be generated in a contents plan.

[0043]

According to the time length etc. of the contents which such a template tends to create, for example, scene composition may be assigned to a general-purpose [ a certain grade ] target, and that in which it specialized for the contents used on specific business may be prepared. For example, the template for the image content which a travel agency creates to sightseeing guidance, It is good to be prepared according to the contents and the purpose of contents like the template for the image content which a real estate agent creates to article introduction, the template for the image content created to advertisement of a certain goods, etc.

For example, considering “a template for the contents for advertisement introduction of the shopping center in front of a station”, it is the composition of scene #1 of the template – #n,

Scene #1: Opening title scene,

Scene #2: The scene of the scenery in front of a station

Scene #3: Map introduction scene

Scene #4: Rows-of-houses introduction scene

Scene #5: Ending scene

Like \*\*\*\*, each scene setting program is prepared by a certain contents by which grade specialization was carried out. The standard time of each scene, etc. are set up.

The plan worker should just edit them based on the plan plan, looking at the standard contents prepared by each scene setting program as a guide.

[0044]

In the case of the contents plan using a template, the various data currently prepared for the raw material database can be used.

A raw material database has a BGM database, a narration database, the Still Picture Sub-Division database, an animation database, etc., for example like drawing 4. There are data as a preset bank currently prepared beforehand and data as a user bank which the user registered in these each database.

[0045]

For example, as a BGM database, various music data is prepared as a preset bank, and also a user can register with a user bank by using favorite music as music data.

And when setting up BGM based on the audio setting program of a template, the music data as the BGM can be set up by choosing from a BGM database.

Setting out of a narration sound is also the same. It is recording a narration sound and registering with a user bank, although especially a narration sound's must be manufactured according to the contents of contents in many cases except a custom thing, The narration actually used from the contents of a finished product in the case of a contents plan can also be chosen.

[0046]

As the Still Picture Sub-Division database and an animation database, Various picture image data is prepared as a preset bank, and also a user can register into a user bank some contents manufactured in the past, the picturized picture image data or the data created by the computer graphic, etc.

And when doing scene setting-out work based on a scene setting program, Picture image data similar to a scene content is chosen from a database, and it can perform applying as a scene content or applying the picture image data actually used from the contents of a finished product as a scene content etc.

[0047]

2-3 Contents plan procedure

The above-mentioned template and a raw material database are used, and the contents plan procedure followed based on a contents plan preparing program is explained, mixing an example.

When a contents plan preparing program is started in CPU41 and creation of contents planning data is started, a template selection process is first performed as Step F101.

CPU41 displays a template selection picture in the indicator 47, and requires selection of a worker.

For example, the list list screen of a template, etc. are displayed. it mentioned above as a template – as -- a certain grade — various kinds, such as what specialized in contents manufacture of a specific business field from what is depended on general-purpose scene composition, are prepared. A worker performs operation which chooses the template considered to be the optimal for this contents manufacture out of the prepared template using the input part 45.

[0048]

If a certain template is chosen, it will become the processing which generates the scene information

set, the audio configuration file, and the Image Processing Division configuration file based on the template from Step F102.

For example, scene setting out of scene #1 as scene composition of the template from which CPU41 was chosen as the indicator 47 in the stage of Step F102 – #n, Each work of audio setting out and image processing setting is displayed as a processing selection screen in menu, and it makes it choose which work to be done to a worker. On the other hand, a worker chooses work arbitrarily.

[0049]

When a worker chooses audio setting-out work, the processing of CPU41 based on a contents plan preparing program progresses to Step F103, displays the work screen based on the audio setting program in a template, and makes a worker do the audio setting-out work of BGM etc.

[0050]

When a worker chooses image-processing-setting work, The processing of CPU41 based on a contents plan preparing program progresses to Step F104, displays the work screen based on the Image Processing Division setting program in a template, and makes a worker do the image-processing-setting work of picture effects, such as wipe, a superimposition, etc.

[0051]

When a worker chooses scene setting-out work, the processing of CPU41 based on a contents plan preparing program progresses to Step F105, and performs selection of scene setting processing. For example, each scene #1–#n and scene composition editing work are displayed as a processing selection screen in menu, and it makes it choose setting out about which scene to be performed to a worker. On the other hand, a worker performs scene selection. Or scene composition editing work is chosen.

When a worker chooses scene #1, the work screen based on the scene #1 setting program in a template is displayed by step F106–1, and a worker is made to perform setting out of the contents of scene #1, time, etc. When scene #2 – #n are chosen, in step F106–2 – F106–n, it processes similarly, respectively.

In the scene composition of the template selected depending on the contents plan which it is going to create, many [ an insufficient thing, / too ], etc. have a scene. In such a case, a worker chooses scene composition editing work. Then, it progresses to Step F107, and CPU41 displays a scene composition edit display on the indicator 47, and makes a worker perform scene edit. And the additional insertion and deletion of a scene are performed from the scene composition set as the template, corresponding to a worker's input.

[0052]

About scene setting-out work, it is checked whether it has completed at Step F108. Namely, after setting out of a certain scene finishes it as either of the step F106–1 – F106–n or edit of scene composition finishes with Step F107, In Step F108, CPU41 performs the display which asks whether continue scene setting-out work to the indicator 47, and asks for a worker's input.

A worker performs the input which directs continuation to progress to the next scene setting-out work. Then, the processing can return to Step F105, and the worker can choose the scene setting-out work of scene #1 – #n arbitrarily, or the editing work of scene composition can be chosen, and desired work can be done.

[0053]

When a worker points to completion of scene setting-out work in Step F108, review processing of a template (contents planning data which edited and created the template) is performed at Step F109. That is, when a worker demands a review here, CPU41 performs reproduction of the template of the edited state in the time. That is, the image and sound of the contents which were set up from the indicator 47 or the voice output part 52 are made to output. The worker can check the state of the present template by this.

CPU41 performs the display which asks a worker for directions of being O.K. by using the state of



the present template as contents planning data during the review of a template, or after a review. A worker chooses the continuation of processing (since it has not completed as contents planning data, it is not O.K.) at Step F110, when continuing edit of a template further. Then, processing returns to Step F102, and arbitrary work is chosen by the worker like the above and it is performed. [0054]

When it reviews at a certain time and a worker judges it as O.K. as contents planning data in the state, O.K. is inputted at Step F110. At this time, processing of drawing 6 is completed, namely, the template of the edited state in that time is completed as one contents planning data. [0055]

And by furthering a contents plan based on the contents plan preparing program which performs such processing a worker, Since it is repeatable until it can carry out contents setting out in arbitrary turn and can be satisfied with contents setting out, reviewing the edited state of a template arbitrarily, Contents planning data can be created very easily and flexibly, imagining the contents after completion, even if it is not an expert. The contents planning data which can create high level contents from the ability to predict easily by template review also about the quality (quality of the contents after completion) as the contents planning data is generable. [0056]

Drawing 7 explains audio setting out of Step F103 in this contents plan processing, and the image processing setting of Step F104.

the template selected now — drawing 7 (a) — like — the time — :minute:second: — it being the template which planned the contents [ it calls it 00:00:00:00 to 00:00:05:00 as a time code of a frame ] for 5 minutes, and, Suppose that it was that by which five scenes of scene #1 - #5 are planned as scene composition.

And for example, by this template, as for scene #2, the timetable shall be beforehand set up as 30 seconds scene #5 for 3 minutes and 15 seconds for 15 seconds scene #3 for 55 seconds for 5 seconds, respectively scene #1, as for scene #4.

[0057]

In this case, although contents serve as an image stream for 5 minutes on the whole, they set up BGM and a narration sound on that time-axis in audio setting out of Step F103 according to a scene.

The example of setting out of BGM is shown in drawing 7 (b).

For example, a worker chooses the music data M1 as BGM in scene #1. Then, the music data M1 is set up as BGM for 5 seconds to the time code 00:00:00:00 to 00:00:05:00.

A worker chooses the music data M2 over scene #2 - #3. Then, the music data M2 is set up as BGM for 1 minute and 10 seconds to the time code 00:00:05:00 to 00:01:15:00.

[0058]

Not a scene but a time code can also be specified and set up. For example, if a worker specifies the time code 00:01:15:00 to 00:02:30:00 and chooses the music data M3, the music data M3 will be set up as BGM in the first half of scene #4.

If the time code 00:02:30:01 to 00:04:30:00 is specified similarly and the music data M4 is chosen, the music data M4 will be set up as BGM in the second half of scene #4.

[0059]

For example, corresponding to the time code on a time-axis, or the scene, the music data which the worker chose is set up as BGM in this way.

Music data may choose the music data which the worker recorded and was data-file-ized to HDD48 etc., the music data which carried out ripping from the disk 91 grade, etc., without choosing desired music from a raw material database, or using a raw material database.

[0060]

The example of setting out of narration is shown in drawing 7 (c).

Also in this case, a worker makes a scene or a time code correspond, and chooses the voice data

as a narration sound. Then, the narration voice data selected corresponding to the scene or time code is set up. Drawing 7 (c) shows the state where the narration voice data N1 was set up corresponding to scene #2, and the narration voice data N2 was set up corresponding to a certain time code point in scene #5.

Narration voice data which the worker recorded and was data-file-ized to HDD48 etc. also with narration music data for choosing from a raw material database or not using a raw material database may be chosen.

[0061]

In Step F103, CPU41 sets up audio information in the state where it is shown in drawing 7 (b) and (c) in this way according to a worker's selection and setting processing. That is, the audio configuration file containing the actual audio information in the state where the scene and the time code were made to correspond is generated.

[0062]

About the image processing setting in the above-mentioned step F104, it is similarly carried out corresponding to a scene or a time code.

For example, a worker specifies the timing on which the character which carries out a superimposed display is inputted and displayed with a scene or a time code to perform a superimposed display in scene #2.

With the classification of an image effect, a scene, a time code, or a scene changes and a worker specifies effect timing as a point etc. to set up image effects, such as wipe and cross fade.

[0063]

As shown in drawing 7 (d), corresponding to these operations, image processing setting is performed on the time-axis of contents. For example, a superimposed display is performed at the beginning of scene #2, when scene #2 and #3 change, wipe processing is performed, and it is set [ that cross fade is performed etc. and ] up when scene #4 and #5 change.

CPU41 generates the Image Processing Division configuration file including the Image Processing Division setting detail to which such a worker pointed in Step F104.

[0064]

The composition (the number of scenes and an order) of each scene in a template, the timetable of each scene, etc. can be changed by scene setting processing (F106-1 - F106-n, F107).

For example, when the timetable of each scene, etc. are changed in scene setting processing after audio setting out or image processing setting was performed, The tbe data (a time code or a scene number) of the period which outputs BGM and narration are good to respond to change of a timetable etc. and to make it automatically corrected on an audio configuration file and the Image Processing Division configuration file.

[0065]

For example, like drawing 7 (b), if BGM is mentioned as an example, although the music data M1 corresponding to scene #1 is set to the music data reproduced for 5 seconds, when the time of scene #1 is changed in 10 seconds after that, it will correct automatically the regeneration time of the music data M1 concerned in 10 seconds. That is, the end point of reproduction is corrected to the time code 00:00:10:00.

When there is such change, the time code value which the scene which follows changes and is equivalent to the point will shift, but it is good for the automatic correction according to the gap to be made to be made.

[0066]

Next, drawing 8 - drawing 12 explain the example of scene setting processing of step F106-1 - F106-n.

As above-mentioned drawing 7 (a) showed, when the selected template comprises five scene #1 - #5, the template has a scene setting program corresponding to scene #1 - #5 as a scene setting program shown in drawing 5.

This template presupposes that it is prepared for local introduction contents, such as a shopping center in front of a station, for example.

[0067]

For example, the setting screen of scene #1, #2, #3, #4, and #5 is prepared for the template as each scene setting program corresponding to scene #1 ~ #5. Supposing it is prepared for local introduction contents, such as a shopping center in front of a station, for example, as this template mentioned above, the setting screen of each scene, It is beforehand set up as an opening title scene, the scene of the scenery in front of a station, a map introduction scene, a rows-of-houses introduction scene, an ending scene, etc.

Each example of a setting screen of scene #1, #2, #3, and #4 is shown in drawing 8 (a), drawing 9 (a), drawing 10 (a), and drawing 11 (a), respectively.

The image set area 100 which sets up image contents, for example, the scene explanation field 101 explaining a scene content, the timetable field 102 which sets up the timetable of a scene, the picturizing method field 103 which sets up the method of picturizing a scene, etc. are established in each setting screen.

The image and image explanation of a scene are displayed on the image set area 100, or picture image data actually used as contents after completion is displayed on it.

In the picturizing method field 103, when picturizing in the video camera 1, the contents which direct the method are described.

[0068]

For example, when a worker chooses scene #1 in the stage of Step F105, based on the scene #1 setting program contained in a template, a screen display and processing corresponding to an input are performed.

CPU41 displays the setting screen of a title scene like drawing 8 (a) on the indicator 47. It is shown in this setting screen that it is a title scene, for example in the scene explanation field 101, and the time length of the scene is shown to it by the timetable field 102.

The display which asks for the input of a title image is performed in the image set area 100.

[0069]

A worker operates the input part 45 to such a setting screen, and performs various inputs. For example, a title character is inputted or scene painting is chosen. Still Picture Sub-Division and an animation may be chosen from a raw material database about scene painting, and the image data which the worker created or inputted may be chosen.

Scene information set SC#1 (P) like drawing 8 (b) is formed about scene #1 by such work.

An imaging method can be set up or a timetable can also be changed.

As long as it uses the title scene which set up a title character and scene painting in this way as contents of a finished product as it is, "image pick-up needlessness" etc. may be inputted into the picturizing method field 103.

CPU41 saves scene information set SC#1 (P) created by the input/edit to the setting screen of a template.

[0070]

When a worker chooses scene #2 in the stage of Step F105, based on the scene #2 setting program contained in a template, CPU41 displays the setting screen of a landscape scene in front of a station like drawing 9 (a) on the indicator 47. It is shown in this setting screen that it is a scene of the scenery in front of a station, for example in the scene explanation field 101, and the time length of the scene is shown to it by the timetable field 102. Although the image set area 100 is blank, the natural guide image may be set up.

A worker sets up image contents to such a setting screen, or sets up a timetable and an imaging method. As long as it thinks that the scene in front of a station is unnecessary, of course, scene explanation may be changed and various setting out may be performed.

When setting up the image contents as a scene in front of a station, A worker creates the sight in

which the character which shows the contents to the image set area 100 as text data, for example, a character, such as "a sight in which the train departed from the station", was inputted, or the train departed from the station by the computer graphic, and makes the picture image data link. An animation and Still Picture Sub-Division similar to such a sight may be chosen from a raw material database, and may be made to link.

They are inputted [ the case where he would like to specify an imaging method, and ] to change a timetable.

Scene information set SC#2 (P) by which image setting out was made like drawing 9 (b) about scene #2 is formed by such work. CPU41 saves scene information set SC#2 (P) created by the input/edit to the setting screen of a template.

[0071]

When a worker chooses scene #3 in the stage of Step F105, based on the scene #3 setting program contained in a template, CPU41 displays the setting screen of a station surrounding map like drawing 10 (a) on the indicator 47. It is shown in this setting screen that it is a scene which displays a map, for example in the scene explanation field 101, and the time length of the scene is shown to it by the timetable field 102. The image set area 100 is considered as the display which asks for a map image.

A worker sets up image contents to such a setting screen, or sets up a timetable and an imaging method. As long as it thinks that a map scene is unnecessary, of course, scene explanation may be changed and arbitrary setting out may be performed in some numbers.

When setting up the image contents as a map scene, a worker makes a map image link to the image set area 100. For example, the still picture data of the map image of the area concerned is made to choose and link from a raw material database. Of course, it may create by a computer graphic, or the map image data incorporated with the scanner etc. may be made to link.

The change is made to input "image pick-up needlessness", for example, or change a timetable as an imaging method.

Scene information set SC#3 (P) by which image setting out was made like drawing 10 (b) about scene #3 is formed by such work. CPU41 saves scene information set SC#3 (P) created by the input/edit to the setting screen of a template.

[0072]

When a worker chooses scene #4 in the stage of Step F105, based on the scene #4 setting program contained in a template, CPU41 displays the setting screen of a rows-of-houses scene like drawing 11 (a) on the indicator 47. It is shown in this setting screen that it is a scene of rows-of-houses scenery, for example in the scene explanation field 101, and the time length of the scene is shown to it by the timetable field 102. Although the image set area 100 is blank, the natural guide image may be set up.

A worker sets up image contents to such a setting screen, or sets up a timetable and an imaging method. As long as it thinks that a rows-of-houses scene is unnecessary, of course, scene explanation may be changed and various setting out may be performed.

When setting up the image contents as a rows-of-houses scene, a worker performs inputting into the image set area 100 the character which shows the contents as text data, or making the picture image data created by the computer graphic, and the picture image data chosen from the raw material database link to it etc. They are inputted [ the case where he would like to specify an imaging method, and ] to change a timetable.

Scene information set SC#4 (P) by which image setting out was made like drawing 11 (b) about scene #4 is formed by such work. CPU41 saves scene information set SC#4 (P) created by the input/edit to the setting screen of a template.

[0073]

The example of scene information set SC#4 (P) is shown in drawing 12.

In this case, a video image is displayed on the image set area 100 by a text and the symbol. For

example, it is considered as the contents which tell a sight [ the image pick-up person who actually picturizes with the video camera 1 ] to picturize.

The imaging method of zoom-in, bread, etc. is described by the picturizing method field 103.

That explanation which is what kind of scene is described by the scene explanation field 101.

The time length of the scene which a worker assumes is shown by the timetable field 102.

[0074]

for example, — it is that a plan worker performs desired change, edit, setting out, data selection, etc. about each scene as mentioned above based on the contents of the scene prepared by the template — each scene information set SC#1 (P) and SC#2 (P) ... is formed.

What is necessary is just to delete a scene with the scene composition of a template to delete [ when a scene is insufficient, perform a scene addition at Step F107, perform setting out like drawing 12 in the scene, or ] conversely.

[0075]

scene information set SC#1 (P) created and SC#2 (P) — although there are some which need the actual image pick-up by the video camera 1 for behind as ..., some which can be used for completion contents as it is have image contents set up with this scene information set. For example, an above-mentioned title image, map image, etc. can be used as it is. What is necessary is just to make the picture image data used actually link to a scene information set to use the image by animation or a computer graphic as some scenes of the contents of a finished product.

[0076]

Although the review of a template (the scene information set, audio configuration file, the Image Processing Division configuration file which carried out edit setting out to the template) is attained at Step F109, By carrying out the reproduction review of the template during contents plan creation repeatedly based on the sequence of scene composition like drawing 7 (a) by this, the image after completion is checked and correction if needed also becomes possible in a plan stage.

[0077]

Since the scene composition of a template can also be edited at Step F107, even if the template which carried out full match to the scene composition which a plan worker means is not prepared, the scene composition as a plan worker's intention is realizable in contents planning data.

Since the screen setting of each scene and BGM setting out become possible by the data selection from a raw material database and a worker can create by himself easily when possible, the high thing of originality is made.

Since the turn of performing setting out about each scene and setting out of an audio and Image Processing Division can be chosen arbitrarily, the plan of it is attained in the easy turn for a worker. If BGM etc. are set up previously, the simplicity of a plan at a point and efficiency of being able to set up the time of a scene according to the time length of the music will improve.

[0078]

2-4 Record on a disk

As drawing 1 explained, the contents planning data created based on the template as mentioned above is recorded on the disk 90.

CPU41 makes it record on the disk 90, after processing of drawing 6 is completed, the template, i.e., the contents planning data, in the state where it was edited into the disk 90 with which the disk drive 51 was loaded at the time.

[0079]

The recorded state in the disk 90 is typically shown in drawing 13.

It was said that the disks 90 are media used for record of an image pick-up video signal in the video camera 1. For this reason, it is in the state where the image pick-up image record section was secured in the disk 90, and contents planning data is recorded as illustrating.

As contents planning data, when it comprises five scenes, for example, the scene information set SC#1 (P) – SC#5 (P) are recorded. [ each ] Each scene information set SC#1 (P) –SC#5 (P)

contains display information which was explained by drawing 8 – drawing 12, respectively, and the actual picture image data linked.

An audio configuration file is recorded. This contains audio setting out, and the actual music and voice data which were explained by drawing 7 (b) and (c).

The Image Processing Division configuration file is recorded. This includes the Image Processing Division setting detail which was explained by drawing 7 (d).

[0080]

Each file as contents planning data recorded on these disks 90 is managed by the management information by methods, such as FAT (File Allocation Table). FAT — scene information set SC#1 (P) about each scene, and SC#2 (P) ... is managed so that it can reproduce in accordance with the sequence as the contents.

Therefore, when playing the disk 90, the temporary contents based on contents planning data are played by a picture sequence as [ the ] planned. Synchronizing with an image, it also changes audio information, such as BGM, into a refreshable state.

Of course, the management information may not be what is called FAT.

[0081]

The created contents planning data is typically shown in drawing 14 (a) according to the reproduction sequence.

When contents planning data is completed, make it review with the contents plan preparation device of drawing 2 (playback), or it records on the disk 90, the case where the disk 90 is reproduced with a contents plan preparation device, the video camera 1, or other disk reproduction devices — drawing 14 (a) — like — Scene information set SC#1 (P) and SC#2 (P) ... the contents meet comparatively the time and are played like the contents after completion. Audio information, such as BGM and narration, is also reproduced synchronizing with the sequence of a scene based on an audio configuration file. The effect and superimposed display which were set up based on the Image Processing Division configuration file are performed.

That is, the image of the contents which it is going to manufacture can be checked by the same time length as the contents after completion.

[0082]

### 3. Scene image pick-up

#### 3-1 Composition of a video camera

Then, the procedure of a scene image pick-up (S2) of drawing 1 is explained. The video camera 1 first used for a scene image pick-up is explained.

The example of appearance of the video camera 1 is shown in drawing 15.

this video camera 1 picturizes [ while an image pick-up person looks into the viewfinder 31, or ], looking at the liquid crystal display section 29 — it is constituted so that things can be carried out. In this drawing 15, the final controlling element 27 for performing the microphone 33 for collecting the camera part 13 for picturizing and the sound at the time of an image pick-up and various operations is shown in the video camera 1.

Although not illustrated, with the side in which the liquid crystal display section 29 was formed, for example, the disk drive part loaded with the disk 90 is formed in the lateral portion of an opposite hand.

[0083]

The internal configuration of the video camera 1 is shown in drawing 16.

The system controller 11 is constituted by the microcomputer and controls the whole video camera 1. That is, motion control of each part explained below is performed.

[0084]

The camera part 12 is a part for an image image pick-up, and is provided with the image pick-up part 13, the imaging signal treating part 14, and the camera controller 15.

The lens system constituted by providing the image pick-up part 13 with an imaging lens, a

diaphragm, etc., CCD (Charge Coupled Device) which generates an imaging signal by detecting the image pick-up light obtained by the drive system for making automatic focusing operation and zooming operation perform to a lens system, and a lens system, and performing photoelectric conversion etc. -- it is provided.

[0085]

The imaging signal treating part 14 is provided with the sample hold / AGC (Automatic Gain Control) circuit which performs the gain adjustment to the signal acquired by CCD of the camera part 13, and waveform shaping, and a video A/D converter, and generates the digital image data based on an image pick-up.

[0086]

The camera controller 15 controls operation of the image pick-up part 13 and the imaging signal treating part 14 based on the directions from the system controller 11. For example, the camera controller 15 has the control (motor control) for performing operation of auto-focusing, automatic exposure adjustment, diaphragm adjustment, zoom, etc. performed to the image pick-up part 13. The camera controller 15 is provided with a timing generator, and controls signal-processing operation by the timing signal generated with a timing generator to CCD and the sample hold/AGC circuit of the imaging signal treating part 14, and a video A/D converter.

[0087]

In the camera part 12, the above composition generates image pick-up picture image data.

The A/D conversion of the audio signal acquired with the microphone 33 is carried out by the voice signal processing section 34, and the voice data in sync with image pick-up picture image data is generated.

[0088]

The recording reproduction section 16 is a part which records the image pick-up picture image data (and voice data obtained with the microphone 33) obtained by the camera part 12 on a recording medium, and can be reproduced.

Encoding / decode part 17, the disk drive 18, and the record reproduction controller 19 are formed in the recording reproduction section 16.

[0089]

Encoding / decode part 17 the image pick-up picture image data obtained by the camera part 17 at the time of an image pick-up. It processes compressing by the prescribed method as an MPEG (Moving Picture Experts Group) method or other compression technology, or changing into the recording format to the disk 90 etc. Compression and format conversion are performed also about voice data. Processing which is recorded on the disk 90 without performing a data compression is also considered.

The image pick-up picture image data (and voice data) processed by encoding / decode part 17 is recorded on the disk 90 with which the disk drive 18 is supplied and loaded.

At the time of playback of the data recorded on the disk 90, the picture image data (and voice data) played by the disk drive 18 is decoded by encoding / decode part 17.

[0090]

The record reproduction controller 19 performs processing, the record by the disk drive 18 and reproduction motion of encoding / decode part 17, and control about input and output of data based on directions of the system controller 11.

The disk drive 18 is controlled and read-out and writing, such as management information, for example, FAT data etc., and edit of the data further recorded on the disk 90 by renewal of FAT, etc. are performed.

[0091]

The display to the viewfinder 31 or the liquid crystal display section 29 of the image pick-up picture image data obtained by the camera part 17 at the time of an image pick-up and the picture image data played from the disk 90 is enabled.



When the camera part 12 is outputting image pick-up picture image data in the time of image pick-up execution and image pick-up standby, etc., the image pick-up picture image data is supplied to both or one side of the viewfinder driver 30 and LCD driver 28.

The viewfinder driver 30 and LCD driver 28 perform operation in which the image by image pick-up picture image data is displayed on the viewfinder 31 and the liquid crystal display section 29, respectively according to the directions from the system controller 11. According to directions of the system controller 11, the superimposed display of the predetermined character image is carried out.

At the time of the picture-image-data playback from the disk 90, the picture image data which the reproducing output was carried out with the disk drive 18, and was decoded by encoding / decode part 17 is supplied to both or one side of the viewfinder driver 30 and LCD driver 28. The viewfinder driver 30 and LCD driver 28 perform operation in which the image by the picture image data supplied, respectively and the character image to superimpose is displayed on the viewfinder 31 and the liquid crystal display section 29 according to the directions from the system controller 11.

[0092]

Therefore, the user can perform standby (at the time of the check of a photographic subject) of an image pick-up and monitoring in the case of an image pick-up, the check of the image contents recorded on the disk 90, editing operation, etc., looking at the viewfinder 31 and the liquid crystal display section 29. The picture image data recorded on the disk 90 is the picture image data currently recorded as contents planning data as having mentioned above, the picture image data picturized and recorded with the video camera 1 concerned, etc.

[0093]

D/A conversion is carried out with the audio driver 35, and signal processing, such as filtering and amplification, is carried out, and the audio information played from the disk 90 is outputted from the loudspeaker part 36.

[0094]

The external interface 20 is a part which outputs and inputs picture image data, contents planning data, etc. between the audio visual device as an external device, information machines and equipment, storage apparatus, etc.

The communications department 21 is a part which performs network communication for example, by a cable and radio. For example, it is formed by the modem, the Ethernet interface, a cellular-phone interface, etc.

The gestalt by which the contents planning data 90 is not recorded on the disk 90 is also considered, and these are used in that case for an input of contents planning data, although it is a part which is not directly related to the imaging operation based on the contents planning data which is explained in this example, and which was recorded on the disk 90. These are later mentioned as a modification.

[0095]

ROM22, RAM23, and the flash memory 24 are used as the data which needs the system controller 11 respectively, memory of a program, or an operation field.

For example, the processing program of the system controller 11, fixed data, etc. are memorized by ROM23. RAM23 is used as storing and the work region of temporary information. The control factor of various kinds [ flash memory / 24 ], etc. are memorized.

[0096]

The various handlers for the user's operation to the video camera 1 concerned are prepared for the final controlling element 27. That is, the handler for power source operation, image pick-up operation, reproduction operation, zoom operation, various mode operations, editing operation, etc. is formed.

According to detecting operation of the user by these handlers, the system controller 11 is controlled so that required operation is performed to each part.

[0097]

With a DC to DC converter, the power supply section 32 supplies the power supply voltage of a necessary level to each circuit part using the DC power supply obtained by a built-in battery, or the DC power supply generated from commercial alternating current power via the power supply adapter. According to the power source operation from the final controlling element 27 mentioned above, the system controller 11 controls the power turn/OFF by the power supply section 32.

[0098]

In the example of composition of this video camera 1, although a video camera body shall be equipped with the liquid crystal display section 29, it is not necessary to necessarily form the liquid crystal display section 29.

Although the contents displayed on the liquid crystal display section 29 at the time of a scene image pick-up are mentioned later, it enables it to connect external monitor apparatus, and may be made to perform the same display as the liquid crystal display section 29 in the monitor apparatus.

[0099]

3-2 Scene image pick-up procedure

The procedure of the scene image pick-up performed using the video camera 1 is shown in drawing 17. Drawing 17 is shown as processing which the system controller 11 in the video camera 1 performs based on an image pick-up person's operation.

[0100]

At Step F200, contents planning data is acquired first. When being loaded with the disk 90 with which contents planning data was recorded like this example at the time of an image pick-up, it should just be checked that contents planning data is recorded on the disk 90.

[0101]

In Step F201, each scene contained in contents planning data is displayed, and an image pick-up person is asked for scene selection.

for example, the system controller 11 -- each scene information set SC#1 (P) and SC#2 (P) -- the representative picture image as ... is reproduced and it is made to display on the liquid crystal display section 29

The example which displayed the scene selection picture is shown in drawing 18 (a). it illustrates -- as -- each scene information set SC#1 (P) and SC#2 (P) -- the screen separation of the head image of the image set area 100 in ..., etc. is carried out, and they are displayed, respectively. [ for example, ] That is, they are drawing 8 (b) mentioned above, drawing 9 (b), drawing 10 (b), and the image set up like drawing 11 (b). Although four scenes are displayed in this example, the picture of the scene information set of the 5th henceforth is also displayed, for example according to skip operation.

[0102]

An image pick-up person performs selection operation to such a scene selection picture. Then, processing of the system controller 11 reproduces scene information set SC#x about scene #x followed and chosen as Step F202.

Supposing scene #4 is chosen, the system controller 11 will reproduce scene information set SC#4 (P) from the disk 90, and as shown in drawing 18 (b), it will be displayed on the liquid crystal display section 29.

By seeing this reproduced image of scene information set SC#4 (P), the image pick-up person can check the contents which should be picturized as scene #4.

That is, explanation of a scene, a video image, a timetable, and an imaging method can be checked.

[0103]

Also when other scenes are chosen in Step F201, the system controller 11 performs reproduction of the scene information set corresponding to the selected scene. As mentioned above, as a scene information set, there is also a thing which does not need the actual image pick-up of a title scene etc., for example.

Although it decides whether to picture by an image pick-up person looking at the reproduced image of a scene information set, an image pick-up is a required scene, and in saying that an image pick-up is moreover started from now on, it performs operation of performing an image pick-up, from the selective state (scene reproduction state) of the scene.

If operation in which an image pick-up person directs an image pick-up start is not performed, the system controller 11 returns to Step F201, and returns to a scene selection picture displaying condition.

[0104]

When an image pick-up person chooses scene information set SC#x (P), and makes it reproduce and predetermined operation is performed that an image pick-up should be performed about the scene concerned, it progresses to Step F204 and shifts to image pick-up processing.

And an image pick-up person performs operation which starts an image pick-up, and recording processing to the disk 90 of the image pick-up picture image data (and voice data obtained with the microphone 33) obtained by the camera part 12 is performed.

Although the system controller 11 is controlled in the liquid crystal display section 29 to display the image under image pick-up, At this time, it may control by techniques, such as a child screen display (or screen separation) by a picture yne picture, to display the reproduced image of scene information set SC#x (P) to be shown in drawing 18 (c). Drawing 18 (b) is in the state where scene information set SC#4 (P) used as the contents which direct such an image with the image which is actually picturizing the scenery of "the nature in rows of houses" as scene #4 is displayed.

[0105]

Image pick-up processing should just be continued during end operation from an image pick-up person's start operation. Since the image pick-up person can check the time length of the scene concerned, according to the time, he does some and should be made just to picture according to the reproduced image of a scene information set in longer time.

Or the system controller 11 is detected for the timetable information set up in the scene information set, and the system controller 11 can manage imaging time and can also make it end automatically.

That is, when it carries out comparatively the time in a scene information set and is considered as the scene for 1 minute, the system controller 11 sets up somewhat longer imaging time for 1 minute, 10 etc. seconds, etc. And when a time count is performed from the time of an image pick-up person performing image pick-up start operation, and starting image pick-up processing and 1 minute and 10 seconds pass, image pick-up processing is terminated automatically. Thus, if it sets, an image pick-up person can be concentrated on operation of the situation of image pick-up work, for example, a photographic subject, zoom, bread, etc., etc. without using the nerve like \*\* for imaging time.

[0106]

The scene image pick-up as Step F204 can carry out repeat execution. namely, the take 1 and the take 2 — as ..., the scene image pick-up of multiple times can be performed until an image pick-up person can be satisfied.

That is, it is managed as image pick-up picture image data of a scene in which image pick-up picture image data was chosen whenever it progressed to Step F204 and performed the scene image pick-up, after choosing a certain scene at Step F201, and is recorded. therefore — if a multiple-times image pick-up is performed by the same scene selective state — the take 1 and the take 2 about a scene with each respectively same image pick-up picture image data — it is managed as ...

The state where image pick-up picture image data was recorded on the disk 90 is shown in drawing 20.

As it explained in drawing 13 previously, where contents planning data is recorded on the disk 90, the image pick-up image record section is left behind, but image pick-up picture image data is

recorded on this image pick-up image record section. By in this case, the thing for which Take1 as scene #2 of image pick-up picture-image-data SC#2 (R) is recorded, and scene #4 is chosen, and a scene image pick-up is performed twice by choosing scene #2 and performing a scene image pick-up once. The state where Take1 as scene #4 of image pick-up picture-image-data SC#4 (R) and Take2 are recorded is shown.

[0107]

After image pick-up processing of Step F204, processing of editing of the image pick-up picture image data of the picturized scene, a review, take selection, etc. is performed in Step F205.

Namely, according to an image pick-up person's operation, the system controller 11 reproduce image pick-up picture-image-data SC#x (R), and make the liquid crystal display section 29 indicate by review, or. When two or more takes are taken about a certain scene, a take selection picture is displayed or the editing operation about image pick-up picture image data is received further.

[0108]

There is setting out of the yne point mainly doubled with editing of image pick-up picture image data at the time set as the scene and an out point.

For example, although Take1 of scene #2 and image pick-up picture-image-data SC#2 (R) which were picturized by the selective state of #4, Take1 of SC#4 (R), and Take2 are shown in drawing 14 (b), let these be long time length more nearly somewhat than the time set as the scene. In order to apply this to the sequence of contents planning data, trimming must be carried out so that the time length set up in scene information set SC#2 (P) and SC#4 (P) may be suited.

For this reason, a yne point (IN) and an out point (OUT) are decided to illustrate according to an image pick-up person's operation.

While for example, an image pick-up person checks the review of image pick-up picture image data in the liquid crystal display section 29. Start points (yne point) are decided. Then, the system controller 11 computes and sets up an out point from the set-up time length.

[0109]

Setting out of a yne point and an out point is recorded on FAT. Image pick-up picture-image-data SC#2 (R) Setting out of the yne point about Take1 and an out point should just be registered into FAT as the start address as a file of image pick-up picture-image-data SC#2(R) Take1, and an ending address.

The actual picture image data by the side of the front end removed from the yne point and the out point and the back end is not eliminated from the disk 90, and it can respond to change a yne point and an out point behind.

[0110]

When two or more takes are taken about a certain scene, the take selection process as which it makes it choose it which take to be adopted is also performed. For example, when the take 1 and the take 2 are taken about scene #4, the system controller 11 reproduces the image pick-up picture image data (Take1 and Take2 of SC#4 (R)) of each take like drawing 19 (a), and is displayed on the liquid crystal display section 29.

An image pick-up person decides which take to use, checking this reproduced image, and performs selection operation. The system controller 11 holds the selection information of a take.

[0111]

Although image pick-up picture image data is recorded by the image pick-up of a certain scene at Step F204 and review, and editing and take selection are performed at Step F205, When operation considered as the image pick-up O.K. about a certain scene chosen now is performed, it progresses to F207 from Step F206, and the image pick-up picture image data in a take and the state where it was edited selected, at the time is registered so that it may be included in the sequence as contents planning data.

That is, FAT is edited in the disk 90.

for example, -- contents -- planning data -- a time -- \*\*\*\* -- drawing 20 -- FAT -- setting --

contents -- a reproduction sequence -- a scene -- an information set -- having used -- " -- SC -- # -- one -- ( -- P -- ) -- -> -- SC -- # -- two -- ( -- P -- ) -- -> -- SC -- # -- three -- ( -- P -- ) -- -> -- SC -- # -- four -- ( -- P -- ) -- -> -- SC -- # -- five -- ( -- P -- ) -- " -- \*\*\*\*\* -- managing -- having -- \*\*\*\*\* .

Then, supposing scene #4 is chosen first, an image pick-up is performed, it supposes that Take1 and Take2 of image pick-up picture-image-data SC#4 (R) were recorded, that take 2 is chosen and it is referred to as O.K., a step -- F -- 207 -- FAT -- updating -- having -- a reproduction sequence -- " -- SC -- # -- one -- ( -- P -- ) -- -> -- SC -- # -- two -- ( -- P -- ) -- -> -- SC -- # -- three -- ( -- P -- ) -- -> -- SC -- # -- four -- ( -- R -- ) -- Take -- two -- -> -- SC -- # -- five -- ( -- P -- ) -- " -- \*\*\*\*\* -- managing -- having -- a state -- becoming .

That is, the image which replaced with the image set up in the plan stage as an image of scene #4, and was actually picturized is incorporated.

[0112]

Then, if the image pick-up of a required scene is not completed, return from Step F209 to F201, but. Under the present circumstances, after scene #4 is rearranged by the actual image pick-up image as mentioned above, the system controller 11 becomes like drawing 19 (b) as a scene selection picture, in order to display each scene in the sequence managed by FAT.

That is, the picture equivalent to scene #4 is changing from the picture of scene information set SC#4 (P) to the picture of image pick-up picture-image-data SC#4(R) Take2 so that it may understand as compared with drawing 18 (a).

[0113]

For example, scene #2 is chosen from the scene selection picture in Step F201, progress to Step F204, and an image pick-up is performed then, When image pick-up picture-image-data SC#2(R) Take1 is set to O.K. at Step F206, FAT is updated at Step F207 and the image pick-up picture-image-data SC#2(R) Take1 concerned is registered into a reproduction sequence. namely, -- a reproduction sequence -- " -- SC -- # -- one -- ( -- P -- ) -- -> -- SC -- # -- two -- ( -- R -- ) -- Take -- one -- -> -- SC -- # -- three -- ( -- P -- ) -- -> -- SC -- # -- four -- ( -- R -- ) -- Take -- two -- -> -- SC -- # -- five -- ( -- P -- ) -- " -- \*\*\*\*\* -- managing -- having -- a state -- becoming -- that is, -- a scene -- # -- two -- an image -- \*\*\*\*\*. The image which replaced with the image set up in the plan stage, and was actually picturized is incorporated. If it returns to Step F201 in the state, as shown in drawing 19 (c), the image of image pick-up picture-image-data SC#2(R) Take1 will be reproduced as an image of scene #2.

[0114]

Even if image pick-up at Step F204, editing at Step F205, etc. were performed, when O.K. take was not obtained and an image pick-up person judges, operation which returns to FStep F202, F204, or 205 is enabled. The system controller 11 carries out repeat execution of these processings according to an image pick-up person's operation.

[0115]

Although it is for the idea of a scene to occur suddenly and add a scene, for example during image pick-up work [ at the spot ], it is a stage of the scene selection picture of Step F201 in that case, and a scene addition can be performed.

The system controller 11 prepares the scene which is not set up at all according to an image pick-up person's scene add operation, and adds it to a scene selection picture.

If an image pick-up person chooses the added scene #y concerned and performs image pick-up operation, the system controller 11 will perform image pick-up processing, and will record it on the disk 90 as image pick-up picture-image-data SC#y (R). When the image pick-up picture-image-data SC#y (R) concerned is made into O.K. take at Step F206, the system controller 11 is Step F207, and it performs renewal of FAT so that image pick-up picture-image-data SC#y (R) of the added scene concerned may be added to a reproduction sequence.

[0116]

When an image pick-up person judges that the required image pick-up was finished and performs predetermined operation in the stage of Step F208, contents are completed at the time.

For example, what is necessary is just to finish an image pick-up in the stage of contents planning data, when the image pick-up was needed about scene #2 and #4, and O.K. take is obtained about scene #2 and #4.

this -- a time -- above -- a reproduction sequence -- " -- SC -- # -- one -- ( -- P -- ) -- -> -- SC -- # -- two -- ( -- R -- ) -- Take -- one -- -> -- SC -- # -- three -- ( -- P -- ) -- -> -- SC -- # -- four -- ( -- R -- ) -- Take -- two -- -> -- SC -- # -- five -- ( -- P -- ) -- " -- managing -- having -- \*\*\*\* -- supposing. If it is made to play through the whole contents from the disk 90, playback as shown in drawing 14 (c) will be performed. That is, it is if it says according to the example of the contents planning data mentioned above,

Scene #1 ... Title image set up by scene information set SC#1

Scene #2 ... Image pick-up picture-image-data SC#2(R) Take1 of the scenery in front of a station

Scene #3 ... Map image set up by scene information set SC#3

Scene #4 ... Image pick-up picture-image-data SC#4(R) Take2 of rows-of-houses scenery

Scene #5 ... Ending image set up by scene information set SC#5

\*\* and turn are reproduced. BGM and narration are reproduced synchronizing with an image according to an audio configuration file, and a picture effect and a superimposition are further performed according to the Image Processing Division configuration file.

And this serves as an image content of a finished product.

[0117]

It is also possible to make fine correction (S3) if needed, as drawing 1 explained after this.

For example, it is also possible to correct an audio configuration file, to make BGM change, to correct the yne point of image pick-up picture image data and an out point, or to perform a scene image pick-up further again for restarting.

If it puts in another way, in this example, the contents plan (S1) of drawing 1, a scene image pick-up (S2), and when the manufacture staff considers O.K. in the work process as fine correction (S3) further, It is contents which are recorded on the disk 90 and registered as a reproduction sequence, and the contents are completed.

[0118]

And in the procedure of the above scene image pick-ups, the image pick-up person can do image pick-up work, checking the scene information set in contents planning data. That is, a plan, a continuity with drawings, etc. are made as it is unnecessary.

If a computer graphic image and the picture image data from a raw material database are used in scene information set SC#x (P), the image pick-up person can grasp directly the video image meant in the contents plan stage, and the image pick-up which met the plan will be realized easily.

By reproducing the whole contents along with a reproduction sequence at the arbitrary times, an image pick-up person grasps the whole flow, and whether an image pick-up being expected or the photographed scene being well connected with the scene of order and a check in an imaging site can also be performed. By this, a judgment of OK/NG can also be exactly made about image pick-up picture image data, and working efficiency also improves.

The turn of a scene image pick-up is arbitrary, and can be performed from the scene which is easy to photograph.

[0119]

Therefore, when performing contents manufacture by this embodiment, creation of contents planning data is easy, By reproducing contents planning data and image pick-up picture image data on the sequence of contents at the arbitrary times, and a plan image and an image pick-up result being checked, even if it is not an expert, as for a certain grade, contents manufacture of high quality is attained.

[0120]



#### 4. Modification

According to the above-mentioned embodiment, contents planning data is recorded on the disk 90, and it was made to picturize by using this disk 90 as it is also in the video camera 1. That is, in the video camera 1, it was considered as the example which can acquire contents planning data by setting the disk 90. If it does in this way, the period until it completes contents through a scene image pick-up from a contents plan can be completed by one media, and improvement in efficiency and the ease of handling of contents can be acquired at this point.

[0121]

However, it is tourist guidebook contents manufacture etc., for example, and under situations, such as a case where it picturizes at the place where the office etc. which perform a contents plan are distant, and a schedule of a contents plan and a scene image pick-up, the disk 90 thinks, also when delivery is difficult.

For this reason, it is possible to enable it to transmit contents planning data to the video camera 1 by network communication etc.

Namely, the contents plan preparation device of drawing 2 is provided with the communication processing part 49 and the network interface 50, As were shown in the video camera 1 at drawing 16, and it has the communications department 21, data communications are made possible, and contents planning data is transmitted to the video camera 1 from a contents plan preparation device.

In the video camera 1, a scene image pick-up as the above-mentioned embodiment explained the received contents planning data by recording on the disk 90 can be performed.

Since it can respond also to an image pick-up in a remote place and it also becomes possible easily to have carried out when contents planning data was resent to make a plan change after a scene image pick-up start further if it does in this way, contents manufacturing efficiency can be improved.

[0122]

Or it may be made for the video camera 1 to record contents planning data on media other than the media used for record of image pick-up picture image data as a gestalt which records contents planning data on media and delivers it.

For example, contents planning data is recorded on disk medium with another memory card or disk 90, etc.

In the video camera 1, if the recording reproduction section corresponding to these memory cards or another media is provided, contents planning data can be read by the video camera 1 side, it can record on the disk 90, and a scene image pick-up can be performed like the above.

Even if other recording reproduction sections, such as the memory card, are not provided, contents planning data is acquirable by connecting record reproduction apparatus to a memory card drive etc. with the external interface 20 of the video camera 1.

[0123]

Contents planning data and image pick-up picture image data must not necessarily be recorded on the same media. For example, if coordinated management is possible for the record data of mutual media even if contents planning data and image pick-up picture image data are recorded on another media, the scene image pick-up mentioned above can be performed.

[0124]

As shown in drawing 15 and drawing 16, as the liquid crystal display section 29 was provided and mentioned above, various displays were made to be performed to the video camera 1, but. It enables it to connect an external monitoring device to the video camera 1, and a display like above-mentioned drawing 18 and drawing 19 may be made to be performed in the monitoring device. In the meaning, the liquid crystal display section 29 does not necessarily need to be formed.

A display which was explained by drawing 18 and drawing 19 in the viewfinder 31 may be made to be performed.



[0125]

Although image pick-up picture image data shall be recorded on the disk 90 in the video camera 1 at the time of a scene image pick-up in the above-mentioned example, it records on the disk 90, and also may be made to carry out a transmission output from the communications department 21.

For example, as shown in drawing 21 as a scene image pick-up procedure, it performs.

Step F300 of drawing 21, F301, F302, F303, and Step F305 are the same as Step F200 of drawing 17, F201, F202, F203, and Step F208.

From Step F303, when performing an image pick-up about certain selected scene #x, in Step F304, the picturized image pick-up picture image data is supplied to the communications department 21, predetermined communication encoding is performed, and it is made to carry out a transmission output.

At this time, a scene number (#x), the identification information of the contents planning data itself, etc. are transmitted as information on the scene chosen.

When such an image pick-up and transmission are performed choosing a required scene and an image pick-up is finished about a required scene, it progresses to F306 from Step F305, and scene image pick-up work is finished.

[0126]

Although it only presupposed that it is to transmit the picturized image pick-up picture image data in drawing 21, it cannot be overemphasized that it may record on the disk 90 simultaneously.

Image pick-up processing at Step F304 should just be continued during end operation from an image pick-up person's start operation. Since the image pick-up person can check the time length of the scene concerned, according to the time, he does some and should be made just to picturize according to the reproduced image of a scene information set in longer time.

Or the system controller 11 is detected for the timetable information set up in the scene information set, and the system controller 11 can manage imaging time and can also make it end automatically.

[0127]

The transmission destination of such image pick-up picture image data (and scene number etc.) is a contents plan device or other information processors, and should just be a device which has recorded contents planning data on a certain recording medium at least.

In the received information processor, the image pick-up picture image data transmitted from the video camera 1 is built into the contents planning data memorized. That is, in the information processor, the image pick-up picture image data which contents planning data was made to correspond and was received is recorded with a scene number.

Then, based on a scene number, management information is rewritten, image pick-up picture image data can be built into contents planning data at the information processor side, about a certain scene, it stores by the information processor side, and it can choose or the image pick-up picture image data of two or more takes can be edited.

By that is, the thing for which contents planning data is memorized and image pick-up picture image data is transmitted with a scene number in the information processor of a receiver. Processing of Step [ which was explained as processing with the video camera 1 by drawing 17 ] F205 and F207 can be performed, and contents can be completed by the information processor side concerned.

[0128]

As the disk 90 in an embodiment, the disk medium in which record reproduction is possible is preferred for a magneto-optical disc, a phase change recording disk, etc. It may replace with the disk 90 and the media of other forms, such as a memory card using a flash memory etc., may be used. at least — as the archive medium of picture image data — a certain grade — for there to be sufficient capacity and what is necessary is just the media in which record, reproduction, and edit are possible

[0129]

The contents plan preparing program of this invention is a program which realizes the contents plan preparation device which performs the procedure of the contents plan mentioned above with a personal computer. The contents plan preparation device which acquires the effect mentioned above by this contents plan preparing program can be realized without using a special dedicated device.

According to the program recording medium of this invention with which the contents plan preparing program of such this invention was recorded, offer of a contents plan preparing program becomes easy, and, generally, this invention can be provided widely.

The imaging program of this invention is a program which performs the procedure of a scene image pick-up mentioned above in the video camera 1, for example, turns into an operation program of the system controller 11.

According to the program recording medium of this invention with which the imaging program of such this invention was recorded, since an imaging program can be provided easily, it is suitable for the design of the video camera 1, upgrade, etc.

[0130]

The contents plan preparing program of this invention and an imaging program are recordable on HDD as a recording medium built in apparatus, such as a personal computer, ROM in CPU, etc. beforehand.

Again Or a flexible disk, CD-ROM (Compact Disc Read Only Memory), It is temporarily or permanently storable in removable recording media, such as MO (Magnet optical) disk, DVD (Digital Versatile Disc), a magnetic disk, and semiconductor memory (record). Such a removable recording medium can be provided as what is called a software package.

A contents plan preparing program and an imaging program, It installs in a personal computer etc. from a removable recording medium, and also is also downloadable via networks, such as LAN (Local Area Network) and the Internet, from a download site.

[0131]

[Effect of the Invention]

In this invention, the following effects are acquired so that I may be understood from the above explanation.

According to the contents plan preparation method of this invention, and the contents preparing system. As opposed to the scene which chooses the template to which the scene composition by two or more scenes which constitute contents at least is set, and is contained in the selected template, Contents planning data can be created by setting up the contents of the scene using the existing material data or new production data. Therefore, even if it is a user unfamiliar to a contents plan, a contents plan can be performed in easy and a short time.

The existing material data or new production data can be applied to each scene in a template, and a plan can be furthered, using effectively a past image and prepared image image, a text, a computer graphic, etc.

And a plan, a continuity with drawings, etc. can also be made unnecessary with outputting so that the contents planning data created along with the template can be delivered to an imaging device.

[0132]

Along with the scene composition set up on the template, setting up the contents of an audio can also perform setting out of BGM (background music) or narration in a plan stage corresponding to each scene. It also becomes possible to set up the composition rate of a scene according to length, such as BGM, by the ability of BGM to be set up in a plan stage, and it can cancel the difficult editing processing after an image pick-up, etc.

Along with the scene composition similarly set up on the above-mentioned template, it can plan by setting up the contents of Image Processing Division corresponding to each scene, considering the picture effect, and, moreover, the complicated edit after an image pick-up can also be canceled.

Creation of more advanced contents planning data, such as developing the prepared template and

considering a plan worker's sense by enabling it to change the scene composition set up on the template, is also attained.

About contents planning data, it is carrying out a reproducing output in an output procedure, and the image of the contents after completion can actually be checked with an image and a sound in the stage of a plan. Since it judges whether audio setting out of scene setting out of the composition rate of the planned scene, time, image contents, etc., BGM, etc., image processing setting, etc. are suitable and these corrections can also be immediately made by this, quality contents manufacture can be performed efficiently.

[0133]

Contents planning data can be delivered to an imaging device as it is by making it record on the recording medium with which an imaging device corresponds.

As the transmission output of the contents planning data is carried out in the data communications between imaging devices, it may be made to deliver it to an imaging device. For example, efficient contents creation is realized by sending contents planning data to the imaging device which the staff who has already gone to the imaging site possesses by network communication etc.

[0134]

According to the contents plan preparing program of this invention, the contents plan preparation method which does the above-mentioned effect so to an information processor etc. can be performed.

According to the program recording medium of this invention which recorded the contents plan preparing program, it is suitable for realizing the contents plan preparation method which realizes the above-mentioned effect with an information processor, and extensive offer of the contents plan preparation method.

[0135]

According to the imaging device of this invention, an imaging method, and the contents preparing system, an image pick-up can be performed simply, without what is necessary's being just to picturize by choosing a scene, and using a plan and a continuity with drawings, being on a display and checking the contents of contents planning data. Since what is necessary is to choose the arbitrary scenes contained in contents planning data, and just to picturize, an image pick-up schedule can also be advanced flexibly.

And the image pick-up video signal which was picturized and was recorded on the recording medium is managed in the management information of contents planning data so that it may assign the scene composition of contents planning data. When this became that to which it is only picturizing a required scene and the image pick-up video signal is applied in accordance with the sequence as contents, it is got blocked and a required scene is picturized. It becomes a thing used as the contents of a finished product, and it can be very easy and contents planning data can manufacture contents in a short time. And contents planning data is created with the contents plan preparation method mentioned above. Since the image after completion is checked, the contents which the image pick-up video signal was applied to contents planning data, and were completed become a thing of the contents, the quality, and the level which were assumed in the plan stage.

[0136]

The transmission output of the image pick-up video signal picturized based on contents planning data can also be carried out without recording on a recording medium (or a recording medium record then both). If an image pick-up video signal and scene information (scene number) are transmitted to the information processor which recorded for example, contents planning data, by the information processor side, the transmitted image pick-up video signal can be built into contents planning data based on a scene number, and contents can be completed.

[0137]

Contents planning data is recorded on the recording medium with which an imaging device is equipped, and the imaging device can acquire contents planning data, and moreover, since the image

pick-up video signal is recorded on the recording medium, it can carry out from a contents plan to completion only by using one recording medium.

An image pick-up video signal is recorded on a recording medium other than a recording medium, it is possible for contents planning data for an imaging device to make it reproduce, and to acquire from the another recording medium, or to acquire by data communications, and it can acquire contents planning data according to the function of apparatus.

[0138]

It becomes a guide of the contents and the technique to picturize by displaying the scene information set corresponding to the selected scene as contents of contents planning data, and even if the image pick-up person has not become skillful, the image pick-up of the level of a certain grade is attained. Therefore, it becomes easy [ also performing an image pick-up as assumed at the time of a plan ].

Where a certain scene in contents planning data is chosen, when an image pick-up is performed, it is suitable as a guide of an image pick-up also by displaying the scene information set corresponding to the selected scene, and the image pick-up video signal under image pick-up.

[0139]

The contents of a complete state (or in part complete state) can be checked by displaying the image based on contents planning data including the image pick-up video signal assigned to the scene composition of contents planning data at the time of photography. Therefore, the flow of the picturized contents or the whole contents is judged on that spot, when it cannot be satisfied with the contents of an image pick-up, it can also restart immediately, and the increase in efficiency of contents creation is urged also to this.

The contents of an image pick-up are checked and more advanced contents creation is attained by enabling it to perform edit to an image pick-up video signal.

[0140]

An image pick-up in the state where a certain scene in contents planning data was chosen, and the execution time of record of an image pick-up video signal are set up based on the scene hour entry included in contents planning data. That is, by an image pick-up/record being automatically ended in time set up about the scene, after an image pick-up is started, even if an image pick-up person is not conscious, suitable time length's image pick-up video signal can be obtained. This also realizes facilitating of image pick-up work, and increase in efficiency.

[0141]

According to the imaging program of this invention, the imaging device and imaging method which do the above-mentioned effect so are realizable, and it is suitable for realization and extensive offer of the imaging device which realizes the above-mentioned effect, and the imaging method according to the program recording medium of this invention which recorded the imaging program.

[0142]

And also by the general user who is not an expert at contents creation by the various above effects according to this invention, it is a short time and they are very simple and a thing by which the effect that the contents of the contents which can moreover bear a business-use way etc. can be created is realized.

[Brief Description of the Drawings]

[Drawing 1]It is an explanatory view of the contents fabrication sequence of an embodiment of the invention.

[Drawing 2]It is a block diagram of the information processor which creates the contents planning data of an embodiment.

[Drawing 3]It is an explanatory view of the template in the case of the contents plan of an embodiment.

[Drawing 4]It is an explanatory view of the raw material database used for the contents plan of an embodiment.

[Drawing 5]It is an explanatory view of the structure of the template of an embodiment.

[Drawing 6]It is a flow chart of contents plan processing of an embodiment.

[Drawing 7]It is an explanatory view of audio setting out in the case of the contents plan of an embodiment, and image processing setting.

[Drawing 8]It is an explanatory view of the scene information set generation based on the template of an embodiment.

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[Drawing 12]It is an explanatory view of the example of a scene information set of an embodiment.

[Drawing 13]It is an explanatory view of the disk which recorded the contents planning data of the embodiment.

[Drawing 14]It is an explanatory view of the image pick-up based on the contents planning data of an embodiment, and completion contents.

[Drawing 15]It is an explanatory view of the appearance of the video camera of an embodiment.

[Drawing 16]It is a block diagram of the composition of the video camera of an embodiment.

[Drawing 17]It is a flow chart of the scene image pick-up procedure of an embodiment.

[Drawing 18]It is an explanatory view of operation from scene selection of an embodiment to an image pick-up.

[Drawing 19]It is an explanatory view of operation from scene selection of an embodiment to an image pick-up.

[Drawing 20]It is an explanatory view of the recorded state of the disk after the scene image pick-up of an embodiment.

[Drawing 21]It is a flow chart of other scene image pick-up procedures of an embodiment.

[Drawing 22]It is an explanatory view of the conventional contents fabrication sequence.

[Description of Notations]

1 A video camera and 11 A system controller and 12 Camera part, 13 An image pick-up part, 14 imaging-signal treating part, and 15 A camera controller and 16 Recording reproduction section, 17 encoding/decode part, and 18 A disk drive and 19 A record reproduction controller and 20 An external interface and 21 The communications department, 22 ROM, 23 RAM, and 24 A flash memory and 25 a time check — a part and 27 Final controlling element

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[Translation done.]

**\* NOTICES \***

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1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\* shows the word which can not be translated.

3.In the drawings, any words are not translated.

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**DESCRIPTION OF DRAWINGS**

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**[Translation done.]**



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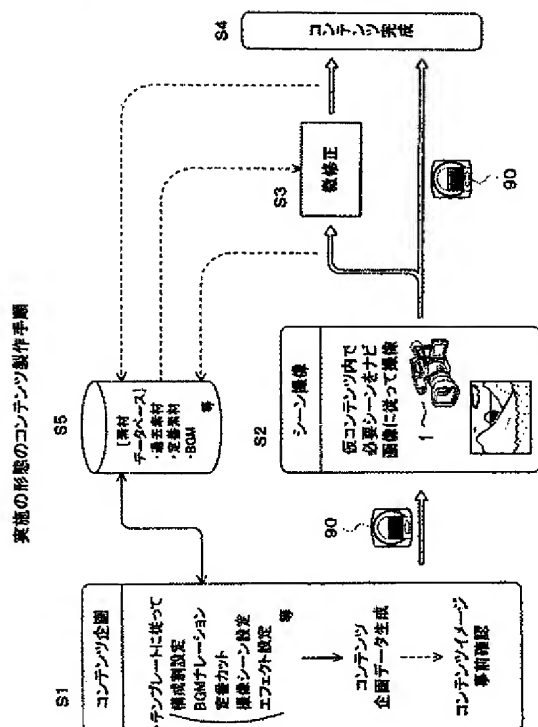
1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\*\* shows the word which can not be translated.

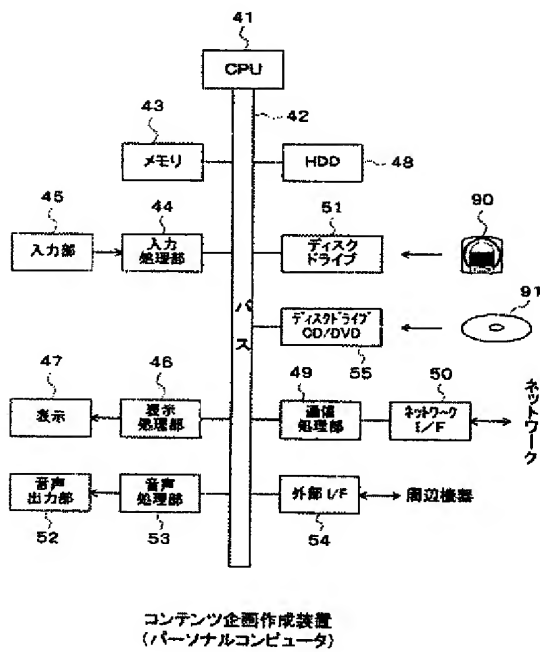
3.In the drawings, any words are not translated.

## DRAWINGS

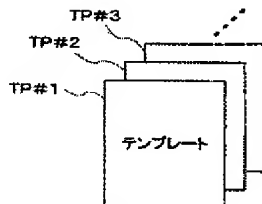
[Drawing 1]



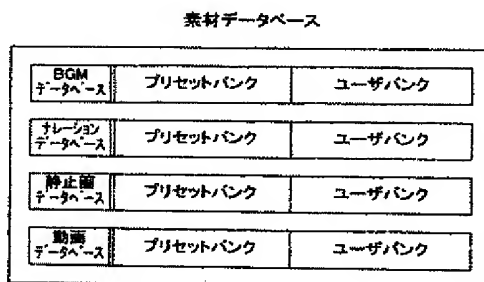
[Drawing 2]



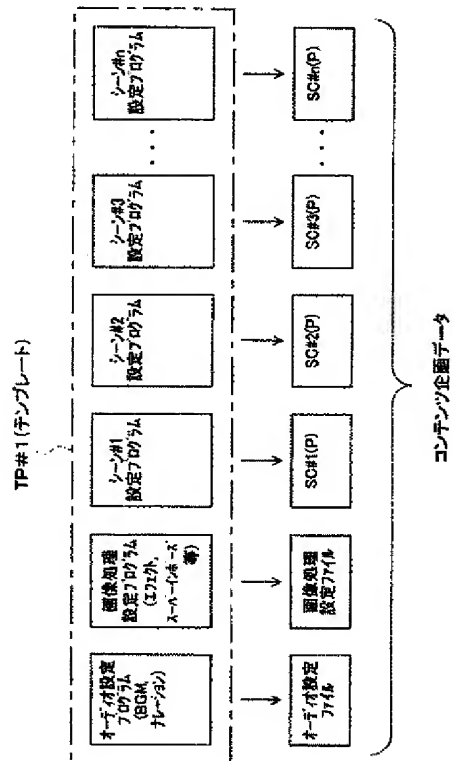
[Drawing 3]



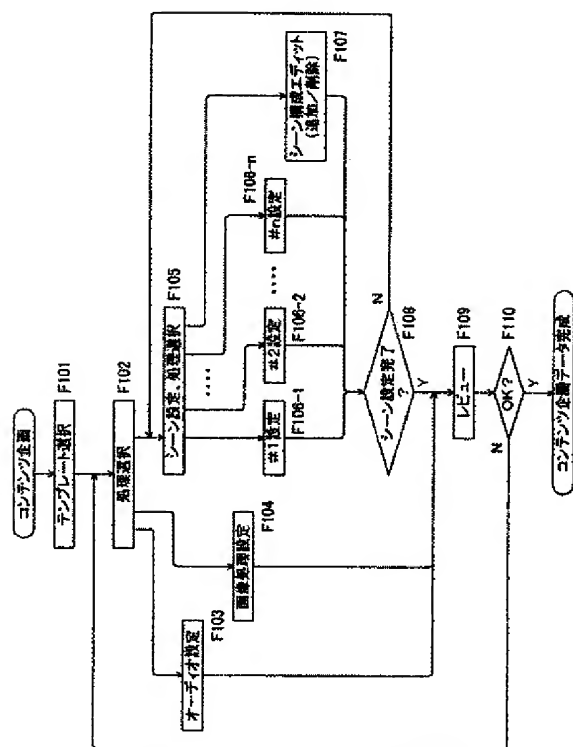
[Drawing 4]



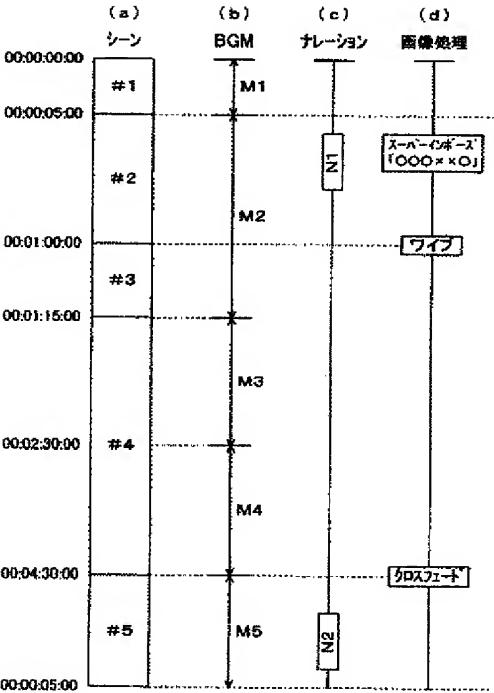
[Drawing 5]



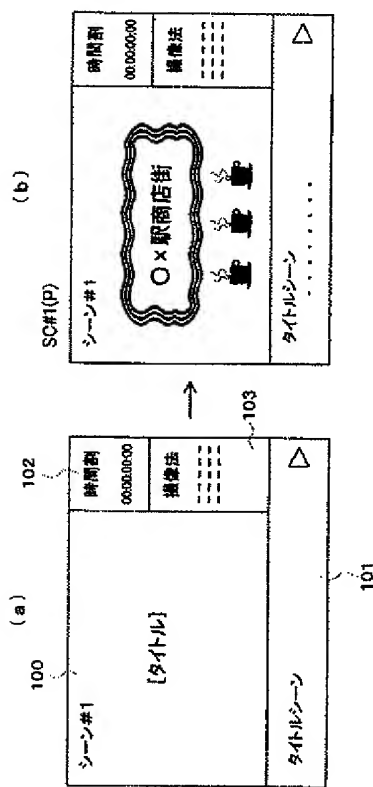
[Drawing 6]



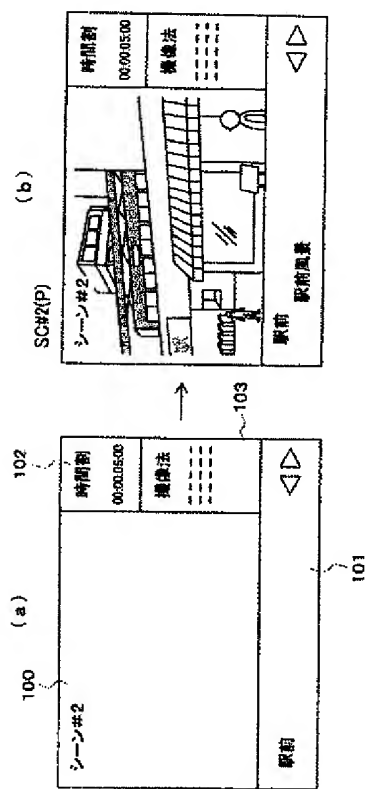
[Drawing 7]



[Drawing 8]

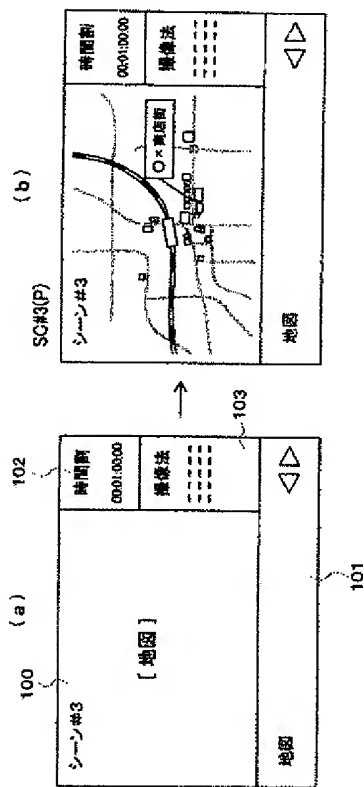


[Drawing 9]

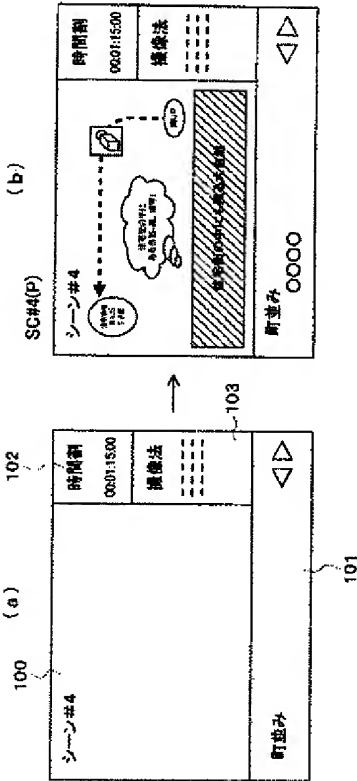


[Drawing 10]

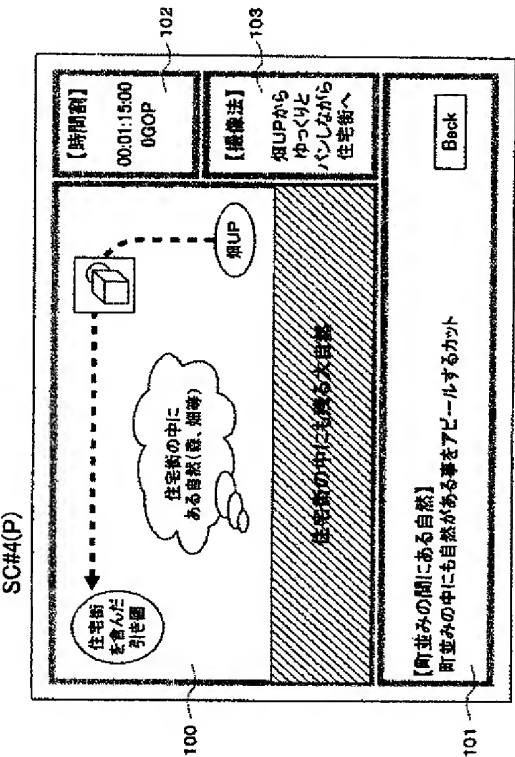




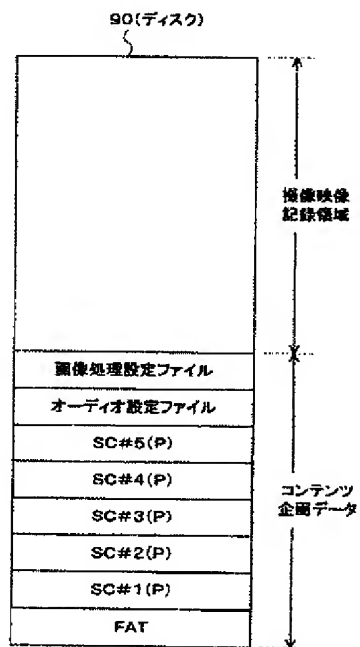
[Drawing 11]



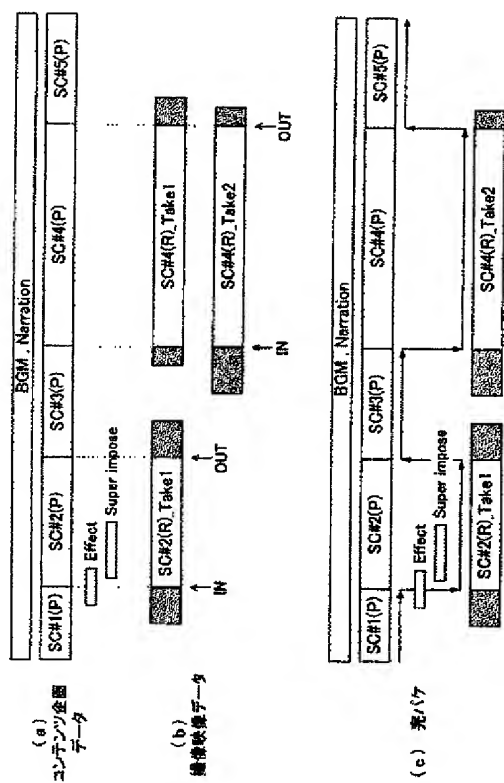
[Drawing 12]



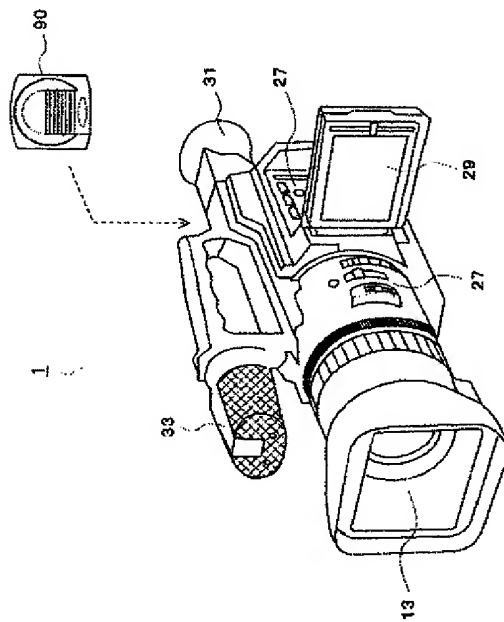
[Drawing 13]



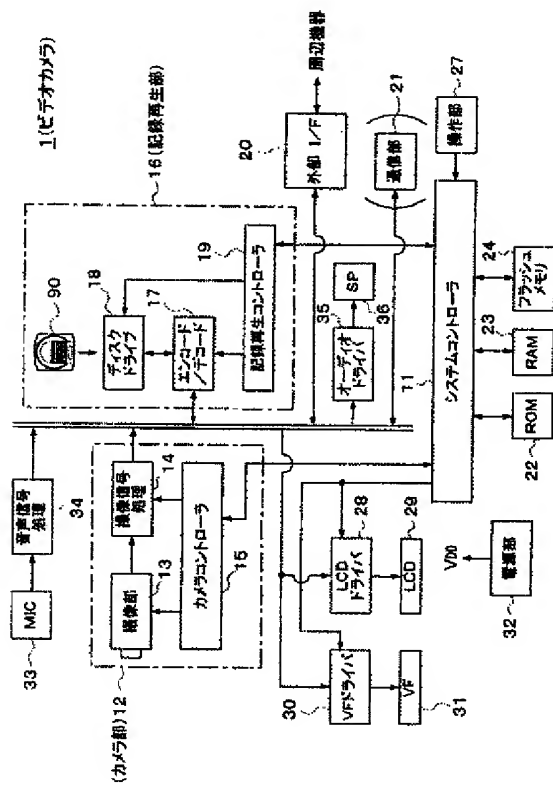
[Drawing 14]



[Drawing 15]

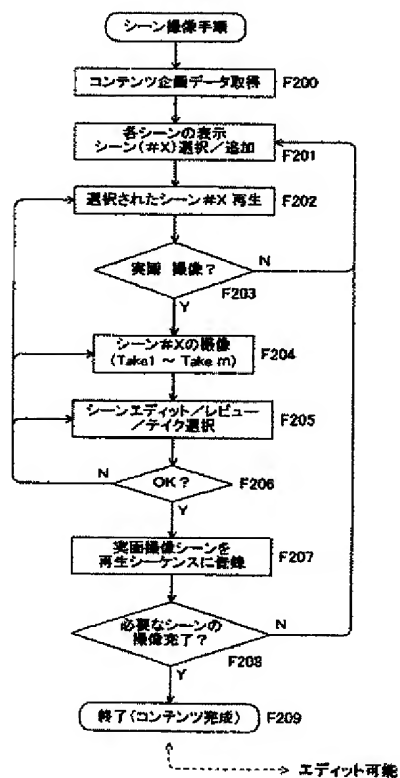


[Drawing 16]

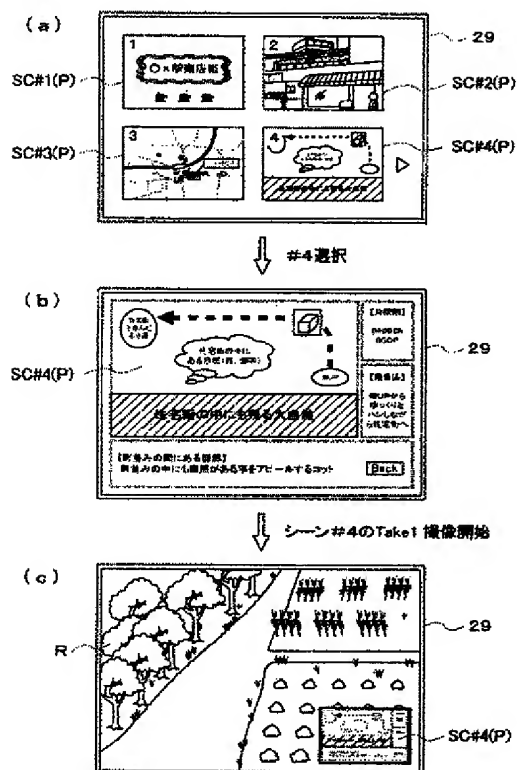


[Drawing 17]

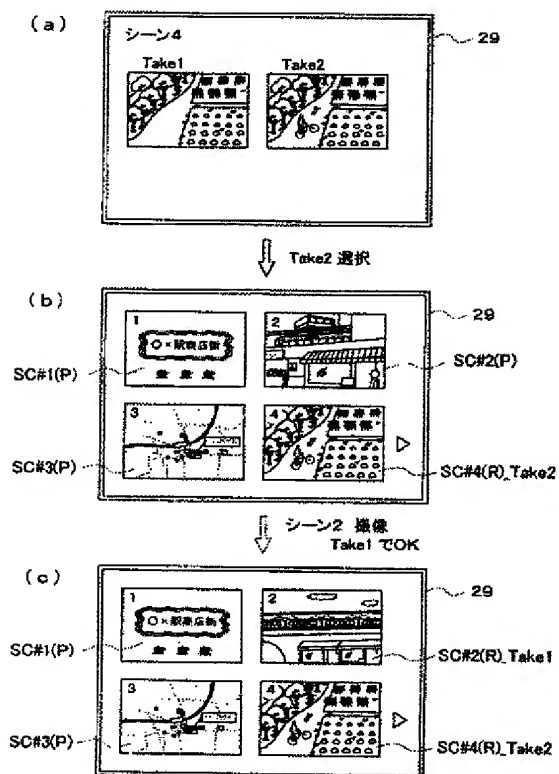




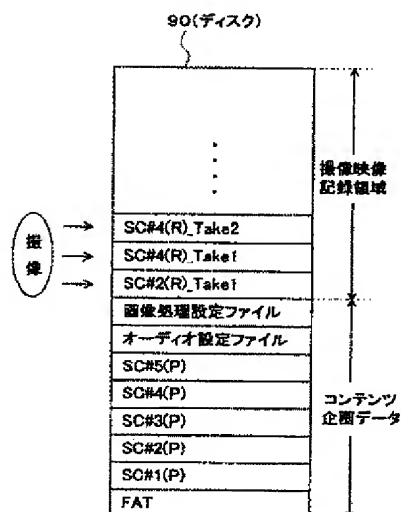
[Drawing 18]



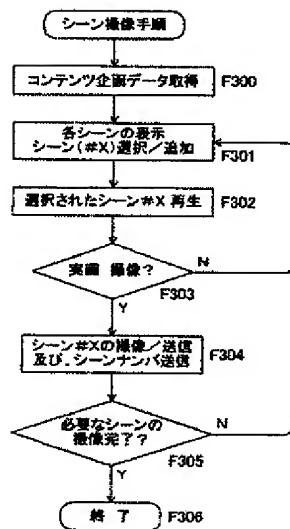
[Drawing 19]



[Drawing 20]

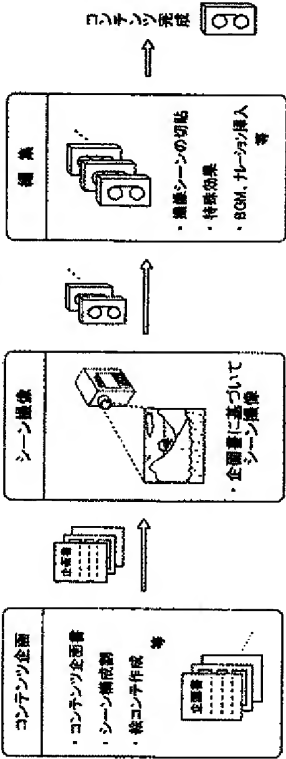


[Drawing 21]



[Drawing 22]

従来のコンテンツ製作手順



[Translation done.]